

**Example of a Complete Habitat Quality Assessment
for the Purpose of Adjusting the Default Mitigation Ratios
Specified in Policy 4.17 of the West Eugene Wetlands Plan**



City of Eugene
Parks and Open Space Division
1820 Roosevelt Blvd.
Eugene, OR 97402

March, 2006

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1. Note to Reader

Note to Reader: The following Habitat Quality Assessment is for example purposes only. The field data sheets may not reflect actual field conditions, although the data is based generally on monitoring data. For purposes of this example, no “impact wetlands” are specifically identified, the entire area outlined by the sites boundary is evaluated.

2. Introductory Letter

July 10, 2000

Wetland Mitigation Bank Coordinator
City of Eugene, Parks and Open Space
1820 Roosevelt Boulevard
Eugene, OR 97402

Re: Example Wetland Habitat Quality Assessment, Example Site A
Tax Map: 17-04-29 tax lot 601 (portion), 602 (portion), and 3001;
Sections 29 T.17S., R.04W., WM Lane County, Oregon.

Dear Mr. Ollek

Please find attached a completed wetland habitat quality assessment for the Example Site A located east of Greenhill Road, west of Amazon Creek, south of the Union Pacific Railroad Tracks and north of the Greenhill Technology Park. Attached you will find fully completed data Forms 1,2,3 and 4 for each habitat type polygon, and a fully completed site data summary and assessment Form 5. In addition, I have included an air photo with overlays showing the location of the 10 sample plots and boundaries for the three different habitat types observed within the delineated wetland area.

Methods

The purpose of this study is to collect and evaluate field data to assess the habitat quality of the wetlands to be impacted on the above mentioned wetland site. Data was collected using the methodology outline in the West Eugene Wetland Habitat Quality Assessment (HQA) Guidance. Primary vegetation communities were initially based on the wetland delineation and a survey of the site. The locations of sample plots for each habitat polygon were determined so as to provide the best overall description of the plant communities on the site. The size of the habitat polygon was taken into account when determining the number of sample plots in each polygon. The sample plot size is the same as for a wetland delineation: a 5-foot radius circle for herbaceous and shrubs and a 30-foot diameter circle for trees. A Vegetation Assessment form and a Plant Species Checklist were completed for each sample plot. The absence or presence of “hummocky micro-topography” was noted. Rare plant information for the site was obtained from a rare plant surveys conducted by BLM staff botanists 1998 – 2000. The center of each sample plot was marked with 3-foot tall red-topped wood lath, indicating the habitat polygon and sample number. The locations of each sample plot and habitat polygon boundaries were also recorded using a hand-held GPS unit (optional).

From the sample plot data, percent cover of native species was calculated for each sample plot, and extrapolated to the corresponding vegetation community. Preliminary habitat quality scores were assigned taking into account the number of native species and the percent cover for native species estimated within each of the vegetation communities.

3. Summary of Findings

The delineated wetlands for the site totaled 15.5 acres in size with the majority of the wetlands area being wet prairie. The eastern edge of the site is a forested wetland, transitioning to upland. The north part of the site appears to be wet prairie transitioning to scrub shrub wetlands.

Much of the existing site is currently dominated by herbaceous vegetation, although trees and shrubs are beginning to spread across portions of the site. The wetlands on the Example Site A site are best characterized as mostly wet prairie with small patches of forested, scrub-shrub and emergent wetland scattered across the site. Some native ash trees are found adjacent to the upland along the eastern edge of the site. The eastern edge of the site transitions to upland where a multi-use path is located. The path runs along the site property line and is outside the of the site boundary. There is evidence that in the past, the site was used for pasture until the early 1990's. Rare plant surveys were conducted for all federally listed threatened and endangered plants (Salix and Associates, 1996 and 1997; Weber, 1998; Marshall, 1999). Kincaid's lupine (*Lupinus sulphureus var. kincaidii*), Fender's blue butterfly (*Icaricia icarioides fenderi*), white-topped aster (*Aster curtus*) and Willamette daisy (*Erigeron decumbens var. decumbens*) have been located at the Example Site A site. The locations are mapped on the attached site map.

Habitat Polygon/Sample Plot	Summary of vegetation
WP1 7 ac.	Habitat Polygon WP 1 is a large area of wet prairie in the south central part of the site. It is dominated with <i>Dechampsia cespitosa</i> and <i>Danthonia californica</i> . Subdominants include native <i>Crataegus douglasii</i> , <i>Veronica scutellata</i> , <i>Madia glomerata</i> , and non-natives: <i>Holcus lanatus</i> , <i>Anthoxanthum odoratum</i> , <i>Festuca arundinacea</i> , <i>Galium parisiense</i> and <i>Phalaris arundinacea</i> . I estimate approximately 69% of the cover vegetation in this polygon is comprised of native species. A large portion of the area is covered with hummocky microtopography.
WP2 1 ac.	Habitat Polygon WP 2 is a large area of wet prairie in the north central part of the site. It is dominated with <i>Dechampsia cespitosa</i> , <i>Cratagus douglassii</i> and non-native <i>Festuca arundinacea</i> . Subdominants include native <i>Veronica scutellata</i> , and <i>Madia glomerata</i> as well as non-natives including <i>Holcus lanatus</i> , <i>Galium parisiense</i> , <i>Anthoxanthum odoratum</i> . I estimate approximately 41% of the cover vegetation in this polygon is comprised of native species. No hummocky microtopography was observed.
SS 1 0.75 ac	Located along the south boundary, this area is largely covered by shrubby vegetation including native: <i>Crataegus douglassii</i> , and non native <i>Rubus armeniacus</i> and <i>Festuca arundinacea</i> . I estimate the native cover to be approximately 39% and the shrub cover to be 33%. There is one sample plot.
SS 2	This area is the north west and central portion of the site, a sliver also extends

Habitat Polygon/Sample Plot	Summary of vegetation
5 ac.	south along the west boundary. A drainage ditch traverses the area flowing off site from the west to the northeast discharging through the forested wetland area into the SPRR right of way. There are three sample plots in this polygon, two in the north and one in the southwest. Dominate species include natives <i>Dechampsia cespitosa</i> , <i>Danthothonia californica</i> , <i>Crataegus douglasii</i> , <i>Spiraea douglasii</i> and <i>Fraxinus latifolia</i> . Subdominants include native <i>Madia glomerata</i> , and non-natives <i>Rubis armenicus</i> , <i>Holcus lanatus</i> , <i>Anthoxanthum odoratum</i> , <i>Festuca arundinacea</i> , and <i>Phalaris arundinecea</i> . I estimate the native cover to be 71%, with an average shrub cover of 37%.
FO1 2.72 ac.	This area is located along the east edge of the site. A drainage ditch drains through the center of the area, discharging into Amazon Creek through a water control structure. It is represented by two sample plots. Dominate native species include: <i>Fraxinus latifolia</i> , <i>Crataegus douglasii</i> with non native <i>Cratagus monogyma</i> . Subdominate native species are: <i>Spirea douglasii</i> , <i>Amelanchier alnifolia</i> and <i>Rosa Nutkana</i> , with non natives: <i>Rubis armeniacus</i> , <i>Pyrus communis</i> and <i>Festuca arundinacea</i> . I estimate the total native cover to be approximately 61%. No hummocky topography noted.

Example HQA Site A

Mar 17, 2006



-  Habitat Type Polygons
-  Sample Plot Locations
-  Rare Plant Locations



200 0 200 400 Feet

Caution: this map is based on imprecise source data, subject to change, and for general reference only.

5. Forms

5.1. Form 1: Site Conditions & History

Site Name: Example Site A

Date: July 10, 2000

Consultant: Consultant A

1) Existing Conditions:

Three drainage ditches convey water from adjacent parcels through site. One ditch runs from the parcel to the west through the northern portion of the site to the northeast corner. Another ditch runs along the south property line. A third ditch traverses polygon SS1 and discharges through a water control structure in to Amazon Creek.

2) Recent Management History:

No grazing, plowing or haying activity has taken place on the site for past ten years. Selective removal of woody vegetation (blackberry and nonnative hawthorn) in the central prairie was completed during the summer of 1999.

3) Have any of the following management actions taken place on the site since 1999? Please indicate the type, location, extent, and timing on this form and the site map.

Soil Disturbance Hydrologic Alteration Herbicide Application Grazing

None.

Other plant community altering activity (please describe)

Selective removal of blackberry and other shrubs from central over past two seasons.

4) Indicate below (✓) which of the following vegetation types are present on the site.

- Forested** where trees have >30% cover.
- Scrub/shrub** Areas where shrubs(woody plants such as willows and small trees under 20 feet in height) have >30% cover.
- Wet Prairie** A herbaceous plant community typically dominated by *Deschampsia cespitosa* (tufted hairgrass), seasonally flooded or saturated.
- Emergent** Areas with rooted, herbaceous wetland plants that may be temporarily or permanently flooded at the base but are nearly always exposed at the upper portion. The emergent vegetation must provide at least 30% cover of the ground and be the upper-most layer.
- Vernal Pool** Areas covered by shallow water for variable periods from winter to spring, but may be completely dry for most of the summer and fall.
- Agricultural Wetland** This wetland type describes recently or currently cultivated areas. Often dominated by non-native grass species.
- Pasture/Old Field Wetland** Pasture/old field wetland type includes all sites that are dominated by non-native plant species not currently in active cultivation, but have a history of agricultural use.

5) Indicate if any of the following plant species listed below (considered rare for the purposes and policies of the WEWP) have been found on the site.

Rare Plants:

Common Name	Scientific Name
<input checked="" type="checkbox"/> white-topped aster	<i>Aster curtus</i>
<input checked="" type="checkbox"/> Willamette daisy	<i>Erigeron decumbens</i> var. <i>decumbens</i>
<input type="checkbox"/> shaggy horkelia	<i>Horkelia congesta</i>
<input type="checkbox"/> Bradshaw's lomatium	<i>Lomatium bradshawii</i>
<input type="checkbox"/> Timwort	<i>Cicendia quadrangularis</i>

5.2. Form 2: Plant Checklist

5.2.1. Form 2 for Habitat Polygon WP1

Site Name: Site A

Date Collected: 7/10/2000

Consultant: Consultant A

Habitat Polygon: WP1

Checklist Page 1

Indicate the abundance of each species using the appropriate category: D = Dominant (>25%), C = Common (15-24%), U = Uncommon (3-14%), T = Trace (1 plant to 3%). Species considered rare by the WEW Plan are listed at the end of the form.

	Acer macrophyllum		Bidens frondosa		Carex tumulicola		Cyperus squarrosus
	Achillea millefolium		Brassica rapa		Carex unilateralis		Cytisus scoparius
T	Agrostis exarata	T	Briza minor		Carex vesicaria		Dactylis glomerata
U	Agrostis stolonifera/capillaris	T	Brodiaea coronaria		Carex feta	C	Danthonia californica
T	Aira caryophylla		Brodiaea sp.		Castilleja tenuis		Daucus carota
	Alisma lanceolatum		Bromus carinatus		Ceanothus sp.		Delphinium menzeisii
	Alisma triviale		Bromus hordeaceus	T	Centarium erythraeae	C	Deschampsia cespitosa
	Allium amplexans		Bromus inermis		Centaurea pratensis		Deschampsia danthonioides
	Alnus rubra		Bromus rigidus	U	Centaurium muhlenbergii		Deschampsia elongata
U	Alopecurus geniculatus		Calandrinia ciliata		Centunculus minimus		Dianthus armeria
	Alopecurus pratensis		Callitriche heterophylla		Cerastium glomeratum		Dichelostemma congestum
	Amelanchier alnifolia		Callitriche stagnalis		Cichorium intybus		Dipsacus fullonum
	Anagallis arvensis		Callitriche verna		Cirsium arvense		Downingia elegans
	Anaphalis margaritacea		Calystegia sepium		Cirsium vulgare		Downingia sp.
	Anthemis cotula		Camassia leichtlinii var. suksdorfii		Collomia grandiflora		Downingia yina
U	Anthoxanthum odoratum	T	Camassia quamash var. maxima		Commandra umbellata		Echinochloa crus-galli
	Anthriscus caucalis		Cardamine oligosperma		Conium maculatum		Eleocharis acicularis
	Aristida oligantha		Cardamine penduliflora		Convolvulus arvensis		Eleocharis obtusa
	Arrhenatherum elatius	U	Carex densa	U	Crataegus monogyna		Eleocharis palustris
T	Aster hallii		Carex feta		Crataegus monogyna x suksdorfii		Eleocharis quadrangulata
	Avena fatua		Carex obnupta	C	Crataegus suksdorfii		Elymus elymoides
	Barbarea orthoceras		Carex ovalis		Crepis capillaries		Elymus glaucus
	Beckmannia syzigachne		Carex ovalis		Cuscuta sp.	T	Epilobium brachycarpum
	Berberis aquifolium		Carex pachystachya		Cynosurus cristatus	T	Epilobium ciliatum
	Betula cf pendula/pubescens		Carex pellita		Cynosurus echinatus		Epilobium densiflorum
	Bidens cernua		Carex species		Cyperus eragrostis		Epilobium pygmaeum
			Carex stipata				

Site Name: Site A

Date Collected: 7/10/2000

Consultant: Consultant A

Habitat Polygon: WP1

Checklist Page 2

<input type="checkbox"/>	Equisetum arvense	<input type="checkbox"/>	Iris pseudacorus	<input type="checkbox"/>	Lolium perenne	<input type="checkbox"/>	Montia fontana
<input type="checkbox"/>	Equisetum sp.	<input type="checkbox"/>	Isoetes nutalli	<input type="checkbox"/>	Lomatium nudicaule	<input type="checkbox"/>	Montia linearis
<input type="checkbox"/>	Erechtites minima	<input type="checkbox"/>	Isoetes sp.	<input type="checkbox"/>	Lomatium utriculatum	<input type="checkbox"/>	Myosotis discolor
<input checked="" type="checkbox"/>	Eriophyllum lanatum	<input type="checkbox"/>	Juncus acuminatus	<input type="checkbox"/>	Lonicera ciliosa	<input type="checkbox"/>	Myosotis laxa
<input type="checkbox"/>	Eryngium petiolatum	<input checked="" type="checkbox"/>	Juncus articulatus	<input type="checkbox"/>	Lonicera hispidula	<input type="checkbox"/>	Myosotis verna (Jepson)
<input checked="" type="checkbox"/>	Festuca arundinacea	<input type="checkbox"/>	Juncus bolanderi	<input type="checkbox"/>	Lotus corniculatus	<input type="checkbox"/>	Myriophyllum aquaticum
<input type="checkbox"/>	Festuca rubra	<input checked="" type="checkbox"/>	Juncus bufonius	<input checked="" type="checkbox"/>	Lotus formosissimus	<input type="checkbox"/>	Myosurus minimus
<input type="checkbox"/>	Downingia yina	<input type="checkbox"/>	Juncus effuses	<input type="checkbox"/>	Lotus micranthus	<input type="checkbox"/>	Navarretia intertexta
<input type="checkbox"/>	Fragaria virginiana	<input type="checkbox"/>	Juncus ensifolius	<input checked="" type="checkbox"/>	Lotus unifoliolatus	<input type="checkbox"/>	Navarretia squarrosa
<input checked="" type="checkbox"/>	Fraxinus latifolia	<input type="checkbox"/>	Juncus marginatus	<input type="checkbox"/>	Ludwigia palustris	<input type="checkbox"/>	Nemophila menziesii
<input type="checkbox"/>	Galium aparine	<input checked="" type="checkbox"/>	Juncus nevadensis	<input type="checkbox"/>	Lupinus bicolor	<input type="checkbox"/>	Nemophila parviflora
<input checked="" type="checkbox"/>	Galium parisiense	<input type="checkbox"/>	Juncus oxymeris	<input type="checkbox"/>	Lupinus polyphyllus	<input type="checkbox"/>	Oenanthe sarmentosa
<input type="checkbox"/>	Galium trifidum	<input type="checkbox"/>	Juncus patens	<input type="checkbox"/>	Lupinus rivularis	<input type="checkbox"/>	Orthocarpus bracteosus
<input type="checkbox"/>	Galium triflorum	<input checked="" type="checkbox"/>	Juncus tenuis	<input checked="" type="checkbox"/>	Luzula comosa	<input checked="" type="checkbox"/>	Panicum acuminatum ssp. fasc.
<input type="checkbox"/>	Gentiana sceptrum	<input type="checkbox"/>	Kickxia elatine	<input type="checkbox"/>	Lycopus americanus	<input type="checkbox"/>	Panicum capillare ssp. capillare
<input type="checkbox"/>	Geranium dissectum	<input type="checkbox"/>	Koeleria macrantha	<input type="checkbox"/>	Lythrum hyssopifolia	<input checked="" type="checkbox"/>	Parentucellia viscosa
<input type="checkbox"/>	Geranium spp.	<input type="checkbox"/>	Lactuca saligna	<input type="checkbox"/>	Lythrum portula	<input type="checkbox"/>	Paspalum distichum
<input type="checkbox"/>	Geum macrophyllum	<input type="checkbox"/>	Lactuca serriola	<input type="checkbox"/>	Lythrum salicaria	<input type="checkbox"/>	Perideridia gairdneri
<input type="checkbox"/>	Glyceria occidentalis	<input type="checkbox"/>	Lamium purpureum	<input type="checkbox"/>	Madia elegans	<input type="checkbox"/>	Perideridia oregana
<input type="checkbox"/>	Gnaphalium palustre	<input type="checkbox"/>	Lasthenia glaberrima	<input checked="" type="checkbox"/>	Madia glomerata	<input type="checkbox"/>	Phalaris aquatica
<input type="checkbox"/>	Gnaphalium purpureum	<input type="checkbox"/>	Lathyrus aphaca	<input type="checkbox"/>	Madia sativa	<input checked="" type="checkbox"/>	Phalaris arundinacea
<input type="checkbox"/>	Gnaphalium uliginosum	<input type="checkbox"/>	Lathyrus latifolius	<input type="checkbox"/>	Malus fusca	<input type="checkbox"/>	Phleum pratense
<input type="checkbox"/>	Gratiola ebracteata	<input type="checkbox"/>	Lathyrus sphaericus	<input type="checkbox"/>	Malus xdomestica	<input type="checkbox"/>	Phlox gracilis
<input type="checkbox"/>	Grindelia integrifolia	<input type="checkbox"/>	Leersia oryzoides	<input type="checkbox"/>	Matricaria discoidea	<input type="checkbox"/>	Physocarpus capitatus
<input type="checkbox"/>	Heracleum lanatum	<input type="checkbox"/>	Leontodon taraxacoides	<input type="checkbox"/>	Mazus japonicus	<input type="checkbox"/>	Plagiobothrys figuratus
<input type="checkbox"/>	Heterocodon rariflorum	<input type="checkbox"/>	Lepidium campestre	<input type="checkbox"/>	Melilotus alba	<input type="checkbox"/>	Plagiobothrys scouleri
<input checked="" type="checkbox"/>	Holcus lanatus	<input type="checkbox"/>	Lepidium sp.	<input type="checkbox"/>	Mentha piperita	<input checked="" type="checkbox"/>	Plantago lanceolata
<input type="checkbox"/>	Hordeum brachyantherum	<input type="checkbox"/>	Leucanthemum vulgare	<input checked="" type="checkbox"/>	Mentha pulegium	<input type="checkbox"/>	Plantago major
<input type="checkbox"/>	Hordeum geniculatum	<input type="checkbox"/>	Ligustrum sp.	<input type="checkbox"/>	Mentha spicata	<input type="checkbox"/>	Plectritis congesta
<input type="checkbox"/>	Hypericum anagaloides	<input type="checkbox"/>	Lindernia dubia	<input type="checkbox"/>	Microseris laciniata	<input type="checkbox"/>	Poa annua
<input checked="" type="checkbox"/>	Hypericum perforatum	<input checked="" type="checkbox"/>	Linum bienne	<input type="checkbox"/>	Mimulus guttatus var. dep.	<input type="checkbox"/>	Poa compressa
<input checked="" type="checkbox"/>	Hypochaeris radicata	<input type="checkbox"/>	Lolium multiflorum	<input type="checkbox"/>	Moenchia erecta	<input type="checkbox"/>	Poa pratensis

Site Name: Site A

Date Collected: 7/10/2000

Consultant: Consultant A

Habitat Polygon: WP1

Checklist Page 3

	Polygonum aviculare		Rosa eglanteria		Sisyrinchium californicum (Jep)		Verbascum blattaria
	Polygonum douglasii		Rosa multiflora		Sisyrinchium hitchcockii		Verbascum thapsus
	Polygonum hydropiperoides	T	Rosa nutkana	T	Sisyrinchium idahoense		Veronica americana
	Polygonum persicaria		Rosa pisocarpa		Solanum dulcamara		Veronica arvensis
	Polypogon monspeliensis	U	Rubus armeniacus		Solanum nigrum		Veronica peregrina
	Polystichum munitum		Rubus laciniatus		Solidago canadensis	T	Veronica scutellata
	Populus trichocarpa		Rubus ursinus		Sonchus asper		Viburnum ellipticum
T	Potentilla gracilis	T	Rumex acetosella		Sorghum halapense		Vicia cracca
T	Prunella vulgaris var. lanceolata		Rumex conglomeratus		Sparganium emersum		Vicia hirsuta
	Prunella vulgaris var. vulgaris	T	Rumex crispus		Spergularia arvensis		Vicia sativa
	Prunus avium		Rumex salicifolius		Spergularia rubra	T	Vicia tetrasperma
	Prunus sp.		Salix geeyeriana		Spiraea douglasii		Vulpia bromoides
	Pseudotsuga menziesii		Salix hookeriana		Spiranthes romanzoffiana		Vulpia myuros
	Psilocarphus elatior		Salix lucida		Stellaria calycantha		Vulpia sp. (annual)
	Psilocarphus spp.		Salix scouleriana		Stellaria longipes		Wyethia angustifolia
	Pteridium aquilinum		Salix sessilifolia		Stellaria media		Zigadenus venenosus
	Pyrrocoma racemosa		Salix sitchensis		Symphoricarpos albus		
T	Pyrus communis		Salix sp.		Taraxacum officinale		RARE SPECIES
	Quercus garryana		Sanicula sp.		Thalictrum polycarpum	U	Aster curtus
	Quercus kelloggii		Sanquisorba annua		Torilis arvensis		Cicendia quadrangularis
	Ranunculus alismaefolius		Sanquisorba minor	T	Toxicodendron diversiloba	U	Erigeron decumbens var. decumbens
	Ranunculus aquatilis	T	Saxifraga integrifolia		Trichostema lanceolatum		Horkelia congesta ssp. congesta
	Ranunculus arvensis	T	Saxifraga oregana		Trifolium dubium		Lomatium bradshawii
	Ranunculus flammula		Scirpus acutus		Trifolium hybridum		
	Ranunculus occidentalis		Scirpus microcarpus		Trifolium pratense		
	Ranunculus orthorhynchus		Scirpus tabernaemontani (validus)		Trifolium repens		
	Ranunculus repens		Senecio jacobaea		Trifolium subterraneum		
	Ranunculus sceleratus		Senecio sylvaticus		Trifolium variegatum		
	Ranunculus uncinatus		Senecio vulgaris		Triphysaria versicolor ssp. versicolor		
	Rhamnus purshiana		Sherardia arvensis		Triteleia hyacinthina		
	Rorippa curvisiliqua		Sidalcea campestris		Triticum aestivum		
	Rorippa nasturtium-aquaticum		Sidalcea virgata		Typha latifolia		

5.2.2. Form 2 for Habitat Polygon WP2

Site Name: Site A

Date Collected: 7/10/2000

Consultant: Consultant A

Habitat Polygon: WP2

Checklist Page 1

Indicate the abundance of each species using the appropriate category: D = Dominant (>25%), C = Common (15-24%), U = Uncommon (3-14%), T = Trace (1 plant to 3%). Species considered rare by the WEW Plan are listed at the end of the form.

	Acer macrophyllum		Bidens frondosa		Carex tumulicola		Cyperus squarrosus
	Achillea millefolium		Brassica rapa		Carex unilateralis		Cytisus scoparius
	Agrostis exarata		Briza minor		Carex vesicaria		Dactylis glomerata
	Agrostis stolonifera/capillaris		Brodiaea coronaria		Carex feta		Danthonia californica
	Aira caryophylla		Brodiaea sp.		Castilleja tenuis		Daucus carota
	Alisma lanceolatum		Bromus carinatus		Ceanothus sp.		Delphinium menzeisii
	Alisma triviale		Bromus hordeaceus		Centarium erythraeae	D	Deschampsia cespitosa
	Allium amplexans		Bromus inermis		Centaurea pratensis		Deschampsia danthonioides
	Alnus rubra		Bromus rigidus		Centaurium muhlenbergii		Deschampsia elongata
	Alopecurus geniculatus		Calandrinia ciliata		Centunculus minimus		Dianthus armeria
	Alopecurus pratensis		Callitriche heterophylla		Cerastium glomeratum		Dichelostemma congestum
	Amelanchier alnifolia		Callitriche stagnalis		Cichorium intybus		Dipsacus fullonum
	Anagallis arvensis		Callitriche verna		Cirsium arvense		Downingia elegans
	Anaphalis margaritacea		Calystegia sepium		Cirsium vulgare		Downingia sp.
	Anthemis cotula		Camassia leichtlinii var. suksdorfii		Collomia grandiflora		Downingia yina
U	Anthoxanthum odoratum		Camassia quamash var. maxima		Commandra umbellata		Echinochloa crus-galli
	Anthriscus caucalis		Cardamine oligosperma		Conium maculatum		Eleocharis acicularis
	Aristida oligantha		Cardamine penduliflora		Convolvulus arvensis		Eleocharis obtusa
	Arrhenatherum elatius		Carex densa		Crataegus monogyna		Eleocharis palustris
	Aster hallii		Carex feta		Crataegus monogyna x suksdorfii		Eleocharis quadrangulata
	Avena fatua		Carex obnupta	D	Crataegus suksdorfii		Elymus elymoides
	Barbarea orthoceras		Carex ovalis		Crepis capillaries		Elymus glaucus
	Beckmannia syzigachne		Carex pachystachya		Cuscuta sp.	T	Epilobium brachycarpum
	Berberis aquifolium		Carex pellita		Cynosurus cristatus		Epilobium ciliatum
	Betula cf pendula/pubescens		Carex species		Cynosurus echinatus		Epilobium densiflorum
T	Bidens cernua		Carex stipata		Cyperus eragrostis		Epilobium pygmaeum

Site Name: Site A

Date Collected: 7/10/2000

Consultant: Consultant A

Habitat Polygon: WP2

Checklist Page 2

	Equisetum arvense		Iris pseudacorus		Lolium perenne		Montia fontana
	Equisetum sp.		Isoetes nutalli		Lomatium nudicaule		Montia linearis
	Erechtites minima		Isoetes sp.		Lomatium utriculatum		Myosotis discolor
	Eriophyllum lanatum	T	Juncus acuminatus		Lonicera ciliosa		Myosotis laxa
	Eryngium petiolatum		Juncus articulatus		Lonicera hispidula		Myosotis verna (Jepson)
D	Festuca arundinacea		Juncus bolanderi		Lotus corniculatus		Myriophyllum aquaticum
	Festuca rubra		Juncus bufonius		Lotus formosissimus		Myosurus minimus
	Downingia yina	T	Juncus effusus		Lotus micranthus		Navarretia intertexta
	Fragaria virginiana		Juncus ensifolius		Lotus unifoliolatus		Navarretia squarrosa
	Fraxinus latifolia		Juncus marginatus		Ludwigia palustris		Nemophila menziesii
	Galium aparine		Juncus nevadensis		Lupinus bicolor		Nemophila parviflora
U	Galium parisiense		Juncus oxymeris		Lupinus polyphyllus		Oenanthe sarmentosa
	Galium trifidum	T	Juncus patens		Lupinus rivularis		Orthocarpus bracteosus
	Galium triflorum		Juncus tenuis		Luzula comosa		Panicum acuminatum ssp. fasc.
	Gentiana sceptrum		Kickxia elatine		Lycopus americanus		Panicum capillare ssp. capillare
	Geranium dissectum		Koeleria macrantha		Lythrum hyssopifolia		Parentucellia viscosa
	Geranium spp.		Lactuca saligna		Lythrum portula		Paspalum distichum
	Geum macrophyllum		Lactuca serriola		Lythrum salicaria		Perideridia gairdneri
	Glyceria occidentalis		Lamium purpureum		Madia elegans		Perideridia oregana
T	Gnaphalium palustre		Lasthenia glaberrima	U	Madia glomerata		Phalaris aquatica
	Gnaphalium purpureum		Lathyrus aphaca		Madia sativa		Phalaris arundinacea
	Gnaphalium uliginosum		Lathyrus latifolius		Malus fusca		Phleum pratense
	Gratiola ebracteata		Lathyrus sphaericus		Malus xdomestica		Phlox gracilis
	Grindelia integrifolia		Leersia oryzoides		Matricaria discoidea		Physocarpus capitatus
	Heracleum lanatum		Leontodon taraxacoides		Mazus japonicus		Plagiobothrys figuratus
	Heterocodon rariflorum		Lepidium campestre		Melilotus alba		Plagiobothrys scouleri
U	Holcus lanatus		Lepidium sp.		Mentha piperita		Plantago lanceolata
	Hordeum brachyantherum		Leucanthemum vulgare		Mentha pulegium		Plantago major
	Hordeum geniculatum		Ligustrum sp.		Mentha spicata		Plectritis congesta
	Hypericum anagalloides		Lindernia dubia		Microseris laciniata		Poa annua
	Hypericum perforatum		Linum bienne		Mimulus guttatus var. dep.		Poa compressa
	Hypochaeris radicata		Lolium multiflorum		Moenchia erecta		Poa pratensis

Site Name: Site A

Date Collected: 7/10/2000

Consultant: Consultant A

Habitat Polygon: WP2

Checklist Page 3

<input type="checkbox"/>	Polygonum aviculare	<input type="checkbox"/>	Rosa eglanteria	<input type="checkbox"/>	Sisyrinchium californicum (Jep)	<input type="checkbox"/>	Verbascum blattaria
<input type="checkbox"/>	Polygonum douglasii	<input type="checkbox"/>	Rosa multiflora	<input type="checkbox"/>	Sisyrinchium hitchcockii	<input type="checkbox"/>	Verbascum thapsus
<input type="checkbox"/>	Polygonum hydropiperoides	<input type="checkbox"/>	Rosa nutkana	<input type="checkbox"/>	Sisyrinchium idahoense	<input type="checkbox"/>	Veronica americana
<input type="checkbox"/>	Polygonum persicaria	<input type="checkbox"/>	Rosa pisocarpa	<input type="checkbox"/>	Solanum dulcamara	<input type="checkbox"/>	Veronica arvensis
<input type="checkbox"/>	Polypogon monspeliensis	<input type="checkbox"/>	Rubus armeniacus	<input type="checkbox"/>	Solanum nigrum	<input type="checkbox"/>	Veronica peregrina
<input type="checkbox"/>	Polystichum munitum	<input type="checkbox"/>	Rubus laciniatus	<input type="checkbox"/>	Solidago canadensis	<input type="checkbox"/>	Veronica scutellata
<input type="checkbox"/>	Populus trichocarpa	<input type="checkbox"/>	Rubus ursinus	<input type="checkbox"/>	Sonchus asper	<input type="checkbox"/>	Viburnum ellipticum
<input type="checkbox"/>	Potentilla gracilis	<input type="checkbox"/>	Rumex acetosella	<input type="checkbox"/>	Sorghum halapense	<input type="checkbox"/>	Vicia cracca
<input type="checkbox"/>	Prunella vulgaris var. lanceolata	<input type="checkbox"/>	Rumex conglomeratus	<input type="checkbox"/>	Sparganium emersum	<input type="checkbox"/>	Vicia hirsuta
<input type="checkbox"/>	Prunella vulgaris var. vulgaris	<input type="checkbox"/>	Rumex crispus	<input type="checkbox"/>	Spergula arvensis	<input type="checkbox"/>	Vicia sativa
<input type="checkbox"/>	Prunus avium	<input type="checkbox"/>	Rumex salicifolius	<input type="checkbox"/>	Spergularia rubra	<input type="checkbox"/>	Vicia tetrasperma
<input type="checkbox"/>	Prunus sp.	<input type="checkbox"/>	Salix geeyeriana	<input type="checkbox"/>	Spiraea douglasii	<input type="checkbox"/>	Vulpia bromoides
<input type="checkbox"/>	Pseudotsuga menziesii	<input type="checkbox"/>	Salix hookeriana	<input type="checkbox"/>	Spiranthes romanzoffiana	<input type="checkbox"/>	Vulpia myuros
<input type="checkbox"/>	Psilocarphus elatior	<input type="checkbox"/>	Salix lucida	<input type="checkbox"/>	Stellaria calycantha	<input type="checkbox"/>	Vulpia sp. (annual)
<input type="checkbox"/>	Psilocarphus spp.	<input type="checkbox"/>	Salix scouleriana	<input type="checkbox"/>	Stellaria longipes	<input type="checkbox"/>	Wyethia angustifolia
<input type="checkbox"/>	Pteridium aquilinum	<input type="checkbox"/>	Salix sessilifolia	<input type="checkbox"/>	Stellaria media	<input type="checkbox"/>	Zigadenus venenosus
<input type="checkbox"/>	Pyrrocoma racemosa	<input type="checkbox"/>	Salix sitchensis	<input type="checkbox"/>	Symphoricarpos albus	<input type="checkbox"/>	
<input type="checkbox"/>	Pyrus communis	<input type="checkbox"/>	Salix sp.	<input type="checkbox"/>	Taraxacum officinale	<input type="checkbox"/>	RARE SPECIES
<input type="checkbox"/>	Quercus garryana	<input type="checkbox"/>	Sanicula sp.	<input type="checkbox"/>	Thalictrum polycarpum	<input type="checkbox"/>	Aster curtus
<input type="checkbox"/>	Quercus kelloggii	<input type="checkbox"/>	Sanquisorba annua	<input type="checkbox"/>	Torilis arvensis	<input type="checkbox"/>	Cicendia quadrangularis
<input type="checkbox"/>	Ranunculus alismaefolius	<input type="checkbox"/>	Sanquisorba minor	<input type="checkbox"/>	Toxicodendron diversiloba	<input type="checkbox"/>	Erigeron decumbens var. decumbens
<input type="checkbox"/>	Ranunculus aquatilis	<input type="checkbox"/>	Saxifraga integrifolia	<input type="checkbox"/>	Trichostema lanceolatum	<input type="checkbox"/>	Horkelia congesta ssp. congesta
<input type="checkbox"/>	Ranunculus arvensis	<input type="checkbox"/>	Saxifraga oregana	<input type="checkbox"/>	Trifolium dubium	<input type="checkbox"/>	Lomatium bradshawii
<input type="checkbox"/>	Ranunculus flammula	<input type="checkbox"/>	Scirpus acutus	<input type="checkbox"/>	Trifolium hybridum	<input type="checkbox"/>	
<input type="checkbox"/>	Ranunculus occidentalis	<input type="checkbox"/>	Scirpus microcarpus	<input type="checkbox"/>	Trifolium pratense	<input type="checkbox"/>	
<input type="checkbox"/>	Ranunculus orthorhynchus	<input type="checkbox"/>	Scirpus tabernaemontani (validus)	<input type="checkbox"/>	Trifolium repens	<input type="checkbox"/>	
<input type="checkbox"/>	Ranunculus repens	<input type="checkbox"/>	Senecio jacobaea	<input type="checkbox"/>	Trifolium subterraneum	<input type="checkbox"/>	
<input type="checkbox"/>	Ranunculus sceleratus	<input type="checkbox"/>	Senecio sylvaticus	<input type="checkbox"/>	Trifolium variegatum	<input type="checkbox"/>	
<input type="checkbox"/>	Ranunculus uncinatus	<input type="checkbox"/>	Senecio vulgaris	<input type="checkbox"/>	Triphysaria versicolor ssp. versicolor	<input type="checkbox"/>	
<input type="checkbox"/>	Rhamnus purshiana	<input type="checkbox"/>	Sherardia arvensis	<input type="checkbox"/>	Triteleia hyacinthina	<input type="checkbox"/>	
<input type="checkbox"/>	Rorippa curvisiliqua	<input type="checkbox"/>	Sidalcea campestris	<input type="checkbox"/>	Triticum aestivum	<input type="checkbox"/>	
<input type="checkbox"/>	Rorippa nasturtium-aquaticum	<input type="checkbox"/>	Sidalcea virgata	<input type="checkbox"/>	Typha latifolia	<input type="checkbox"/>	

5.2.3. Form 2 for Habitat Polygon SS1

Site Name: Site A

Date Collected: 7/10/2000

Consultant: Consultant A

Habitat Polygon: SS1

Checklist Page 1

Indicate the abundance of each species using the appropriate category: D = Dominant (>25%), C = Common (15-24%), U = Uncommon (3-14%), T = Trace (1 plant to 3%). Species considered rare by the WEW Plan are listed at the end of the form.

<input type="checkbox"/>	Acer macrophyllum	<input type="checkbox"/>	Bidens frondosa	<input type="checkbox"/>	Carex tumulicola	<input type="checkbox"/>	Cyperus squarrosus
<input type="checkbox"/>	Achillea millefolium	<input type="checkbox"/>	Brassica rapa	<input type="checkbox"/>	Carex unilateralis	<input type="checkbox"/>	Cytisus scoparius
<input type="checkbox"/>	Agrostis exarata	<input type="checkbox"/>	Briza minor	<input type="checkbox"/>	Carex vesicaria	<input type="checkbox"/>	Dactylis glomerata
T	Agrostis stolonifera/capillaris	<input type="checkbox"/>	Brodiaea coronaria	<input type="checkbox"/>	Carex feta	<input type="checkbox"/>	Danthonia californica
<input type="checkbox"/>	Aira caryophylla	<input type="checkbox"/>	Brodiaea sp.	<input type="checkbox"/>	Castilleja tenuis	<input type="checkbox"/>	Daucus carota
<input type="checkbox"/>	Alisma lanceolatum	<input type="checkbox"/>	Bromus carinatus	<input type="checkbox"/>	Ceanothus sp.	<input type="checkbox"/>	Delphinium menzeisii
<input type="checkbox"/>	Alisma triviale	<input type="checkbox"/>	Bromus hordeaceus	<input type="checkbox"/>	Centarium erythraeae	<input type="checkbox"/>	Deschampsia cespitosa
<input type="checkbox"/>	Allium amplexans	<input type="checkbox"/>	Bromus inermis	<input type="checkbox"/>	Centaurea pratensis	<input type="checkbox"/>	Deschampsia danthonioides
<input type="checkbox"/>	Alnus rubra	<input type="checkbox"/>	Bromus rigidus	<input type="checkbox"/>	Centaurium muhlenbergii	<input type="checkbox"/>	Deschampsia elongata
<input type="checkbox"/>	Alopecurus geniculatus	<input type="checkbox"/>	Calandrinia ciliata	<input type="checkbox"/>	Centunculus minimus	<input type="checkbox"/>	Dianthus armeria
<input type="checkbox"/>	Alopecurus pratensis	<input type="checkbox"/>	Callitriche heterophylla	<input type="checkbox"/>	Cerastium glomeratum	<input type="checkbox"/>	Dichelostemma congestum
<input type="checkbox"/>	Amelanchier alnifolia	<input type="checkbox"/>	Callitriche stagnalis	<input type="checkbox"/>	Cichorium intybus	<input type="checkbox"/>	Dipsacus fullonum
<input type="checkbox"/>	Anagallis arvensis	<input type="checkbox"/>	Callitriche verna	<input type="checkbox"/>	Cirsium arvense	<input type="checkbox"/>	Downingia elegans
<input type="checkbox"/>	Anaphalis margaritacea	<input type="checkbox"/>	Calystegia sepium	<input type="checkbox"/>	Cirsium vulgare	<input type="checkbox"/>	Downingia sp.
<input type="checkbox"/>	Anthemis cotula	<input type="checkbox"/>	Camassia leichtlinii var. suksdorfii	<input type="checkbox"/>	Collomia grandiflora	<input type="checkbox"/>	Downingia yina
U	Anthoxanthum odoratum	<input type="checkbox"/>	Camassia quamash var. maxima	<input type="checkbox"/>	Commandra umbellata	<input type="checkbox"/>	Echinochloa crus-galli
<input type="checkbox"/>	Anthriscus caucalis	<input type="checkbox"/>	Cardamine oligosperma	<input type="checkbox"/>	Conium maculatum	<input type="checkbox"/>	Eleocharis acicularis
<input type="checkbox"/>	Aristida oligantha	<input type="checkbox"/>	Cardamine penduliflora	<input type="checkbox"/>	Convolvulus arvensis	<input type="checkbox"/>	Eleocharis obtusa
<input type="checkbox"/>	Arrhenatherum elatius	<input type="checkbox"/>	Carex densa	<input type="checkbox"/>	Crataegus monogyna	<input type="checkbox"/>	Eleocharis palustris
<input type="checkbox"/>	Aster hallii	<input type="checkbox"/>	Carex feta	<input type="checkbox"/>	Crataegus monogyna x suksdorfii	<input type="checkbox"/>	Eleocharis quadrangulata
<input type="checkbox"/>	Avena fatua	<input type="checkbox"/>	Carex obnupta	D	Crataegus suksdorfii	<input type="checkbox"/>	Elymus elymoides
<input type="checkbox"/>	Barbarea orthoceras	<input type="checkbox"/>	Carex ovalis	<input type="checkbox"/>	Crepis capillaries	<input type="checkbox"/>	Elymus glaucus
<input type="checkbox"/>	Beckmannia syzigachne	<input type="checkbox"/>	Carex pachystachya	<input type="checkbox"/>	Cuscuta sp.	<input type="checkbox"/>	Epilobium brachycarpum
<input type="checkbox"/>	Berberis aquifolium	<input type="checkbox"/>	Carex pellita	<input type="checkbox"/>	Cynosurus cristatus	<input type="checkbox"/>	Epilobium ciliatum
<input type="checkbox"/>	Betula cf pendula/pubescens	<input type="checkbox"/>	Carex species	<input type="checkbox"/>	Cynosurus echinatus	<input type="checkbox"/>	Epilobium densiflorum
<input type="checkbox"/>	Bidens cernua	<input type="checkbox"/>	Carex stipata	<input type="checkbox"/>	Cyperus eragrostis	<input type="checkbox"/>	Epilobium pygmaeum

Site Name: Site A

Date Collected: 7/10/2000

Consultant: Consultant A

Habitat Polygon: SS1

Checklist Page 2

<input type="checkbox"/>	Equisetum arvense	<input type="checkbox"/>	Iris pseudacorus	<input type="checkbox"/>	Lolium perenne	<input type="checkbox"/>	Montia fontana
<input type="checkbox"/>	Equisetum sp.	<input type="checkbox"/>	Isoetes nutalli	<input type="checkbox"/>	Lomatium nudicaule	<input type="checkbox"/>	Montia linearis
<input type="checkbox"/>	Erechtites minima	<input type="checkbox"/>	Isoetes sp.	<input type="checkbox"/>	Lomatium utriculatum	<input type="checkbox"/>	Myosotis discolor
<input type="checkbox"/>	Eriophyllum lanatum	<input type="checkbox"/>	Juncus acuminatus	<input type="checkbox"/>	Lonicera ciliosa	<input type="checkbox"/>	Myosotis laxa
<input type="checkbox"/>	Eryngium petiolatum	<input type="checkbox"/>	Juncus articulatus	<input type="checkbox"/>	Lonicera hispidula	<input type="checkbox"/>	Myosotis verna (Jepson)
<input checked="" type="checkbox"/>	Festuca arundinacea	<input type="checkbox"/>	Juncus bolanderi	<input type="checkbox"/>	Lotus corniculatus	<input type="checkbox"/>	Myriophyllum aquaticum
<input type="checkbox"/>	Festuca rubra	<input type="checkbox"/>	Juncus bufonius	<input type="checkbox"/>	Lotus formosissimus	<input type="checkbox"/>	Myosurus minimus
<input type="checkbox"/>	Downingia yina	<input type="checkbox"/>	Juncus effuses	<input type="checkbox"/>	Lotus micranthus	<input type="checkbox"/>	Navarretia intertexta
<input type="checkbox"/>	Fragaria virginiana	<input type="checkbox"/>	Juncus ensifolius	<input type="checkbox"/>	Lotus unifoliolatus	<input type="checkbox"/>	Navarretia squarrosa
<input type="checkbox"/>	Fraxinus latifolia	<input type="checkbox"/>	Juncus marginatus	<input type="checkbox"/>	Ludwigia palustris	<input type="checkbox"/>	Nemophila menziesii
<input type="checkbox"/>	Galium aparine	<input type="checkbox"/>	Juncus nevadensis	<input type="checkbox"/>	Lupinus bicolor	<input type="checkbox"/>	Nemophila parviflora
<input type="checkbox"/>	Galium parisiense	<input type="checkbox"/>	Juncus oxymers	<input type="checkbox"/>	Lupinus polyphyllus	<input type="checkbox"/>	Oenanthe sarmentosa
<input type="checkbox"/>	Galium trifidum	<input type="checkbox"/>	Juncus patens	<input type="checkbox"/>	Lupinus rivularis	<input type="checkbox"/>	Orthocarpus bracteosus
<input type="checkbox"/>	Galium triflorum	<input type="checkbox"/>	Juncus tenuis	<input type="checkbox"/>	Luzula comosa	<input type="checkbox"/>	Panicum acuminatum ssp. fasc.
<input type="checkbox"/>	Gentiana sceptrum	<input type="checkbox"/>	Kickxia elatine	<input type="checkbox"/>	Lycopus americanus	<input type="checkbox"/>	Panicum capillare ssp. capillare
<input type="checkbox"/>	Geranium dissectum	<input type="checkbox"/>	Koeleria macrantha	<input type="checkbox"/>	Lythrum hyssopifolia	<input type="checkbox"/>	Parentucellia viscosa
<input type="checkbox"/>	Geranium spp.	<input type="checkbox"/>	Lactuca saligna	<input type="checkbox"/>	Lythrum portula	<input type="checkbox"/>	Paspalum distichum
<input type="checkbox"/>	Geum macrophyllum	<input type="checkbox"/>	Lactuca serriola	<input type="checkbox"/>	Lythrum salicaria	<input type="checkbox"/>	Perideridia gairdneri
<input type="checkbox"/>	Glyceria occidentalis	<input type="checkbox"/>	Lamium purpureum	<input type="checkbox"/>	Madia elegans	<input type="checkbox"/>	Perideridia oregana
<input type="checkbox"/>	Gnaphalium palustre	<input type="checkbox"/>	Lasthenia glaberrima	<input type="checkbox"/>	Madia glomerata	<input type="checkbox"/>	Phalaris aquatica
<input type="checkbox"/>	Gnaphalium purpureum	<input type="checkbox"/>	Lathyrus aphaca	<input type="checkbox"/>	Madia sativa	<input checked="" type="checkbox"/>	Phalaris arundinacea
<input type="checkbox"/>	Gnaphalium uliginosum	<input type="checkbox"/>	Lathyrus latifolius	<input type="checkbox"/>	Malus fusca	<input type="checkbox"/>	Phleum pratense
<input type="checkbox"/>	Gratiola ebracteata	<input type="checkbox"/>	Lathyrus sphaericus	<input type="checkbox"/>	Malus xdomestica	<input type="checkbox"/>	Phlox gracilis
<input type="checkbox"/>	Grindelia integrifolia	<input type="checkbox"/>	Leersia oryzoides	<input type="checkbox"/>	Matricaria discoidea	<input type="checkbox"/>	Physocarpus capitatus
<input type="checkbox"/>	Heracleum lanatum	<input type="checkbox"/>	Leontodon taraxacoides	<input type="checkbox"/>	Mazus japonicus	<input type="checkbox"/>	Plagiobothrys figuratus
<input type="checkbox"/>	Heterocodon rariflorum	<input type="checkbox"/>	Lepidium campestre	<input type="checkbox"/>	Melilotus alba	<input type="checkbox"/>	Plagiobothrys scouleri
<input type="checkbox"/>	Holcus lanatus	<input type="checkbox"/>	Lepidium sp.	<input type="checkbox"/>	Mentha piperita	<input type="checkbox"/>	Plantago lanceolata
<input type="checkbox"/>	Hordeum brachyantherum	<input type="checkbox"/>	Leucanthemum vulgare	<input type="checkbox"/>	Mentha pulegium	<input type="checkbox"/>	Plantago major
<input type="checkbox"/>	Hordeum geniculatum	<input type="checkbox"/>	Ligustrum sp.	<input type="checkbox"/>	Mentha spicata	<input type="checkbox"/>	Plectritis congesta
<input type="checkbox"/>	Hypericum anagaloides	<input type="checkbox"/>	Lindernia dubia	<input type="checkbox"/>	Microseris laciniata	<input type="checkbox"/>	Poa annua
<input type="checkbox"/>	Hypericum perforatum	<input type="checkbox"/>	Linum bienne	<input type="checkbox"/>	Mimulus guttatus var. dep.	<input type="checkbox"/>	Poa compressa
<input type="checkbox"/>	Hypochaeris radicata	<input type="checkbox"/>	Lolium multiflorum	<input type="checkbox"/>	Moenchia erecta	<input type="checkbox"/>	Poa pratensis

Site Name: Site A

Date Collected: 7/10/2000

Consultant: Consultant A

Habitat Polygon: SS1

Checklist Page 3

<input type="checkbox"/>	Polygonum aviculare	<input type="checkbox"/>	Rosa eglanteria	<input type="checkbox"/>	Sisyrinchium californicum (Jep)	<input type="checkbox"/>	Verbascum blattaria
<input type="checkbox"/>	Polygonum douglasii	<input type="checkbox"/>	Rosa multiflora	<input type="checkbox"/>	Sisyrinchium hitchcockii	<input type="checkbox"/>	Verbascum thapsus
<input type="checkbox"/>	Polygonum hydropiperoides	<input type="checkbox"/>	Rosa nutkana	<input type="checkbox"/>	Sisyrinchium idahoense	<input type="checkbox"/>	Veronica americana
<input type="checkbox"/>	Polygonum persicaria	<input type="checkbox"/>	Rosa pisocarpa	<input type="checkbox"/>	Solanum dulcamara	<input type="checkbox"/>	Veronica arvensis
<input type="checkbox"/>	Polypogon monspeliensis	D	Rubus armeniacus	<input type="checkbox"/>	Solanum nigrum	<input type="checkbox"/>	Veronica peregrina
<input type="checkbox"/>	Polystichum munitum	<input type="checkbox"/>	Rubus laciniatus	<input type="checkbox"/>	Solidago canadensis	<input type="checkbox"/>	Veronica scutellata
<input type="checkbox"/>	Populus trichocarpa	<input type="checkbox"/>	Rubus ursinus	<input type="checkbox"/>	Sonchus asper	<input type="checkbox"/>	Viburnum ellipticum
<input type="checkbox"/>	Potentilla gracilis	<input type="checkbox"/>	Rumex acetosella	<input type="checkbox"/>	Sorghum halapense	<input type="checkbox"/>	Vicia cracca
<input type="checkbox"/>	Prunella vulgaris var. lanceolata	<input type="checkbox"/>	Rumex conglomeratus	<input type="checkbox"/>	Sparganium emersum	<input type="checkbox"/>	Vicia hirsuta
<input type="checkbox"/>	Prunella vulgaris var. vulgaris	<input type="checkbox"/>	Rumex crispus	<input type="checkbox"/>	Spergula arvensis	<input type="checkbox"/>	Vicia sativa
<input type="checkbox"/>	Prunus avium	<input type="checkbox"/>	Rumex salicifolius	<input type="checkbox"/>	Spergularia rubra	<input type="checkbox"/>	Vicia tetrasperma
<input type="checkbox"/>	Prunus sp.	<input type="checkbox"/>	Salix geeyeriana	U	Spiraea douglasii	<input type="checkbox"/>	Vulpia bromoides
<input type="checkbox"/>	Pseudotsuga menziesii	<input type="checkbox"/>	Salix hookeriana	<input type="checkbox"/>	Spiranthes romanzoffiana	<input type="checkbox"/>	Vulpia myuros
<input type="checkbox"/>	Psilocarphus elatior	<input type="checkbox"/>	Salix lucida	<input type="checkbox"/>	Stellaria calycantha	<input type="checkbox"/>	Vulpia sp. (annual)
<input type="checkbox"/>	Psilocarphus spp.	<input type="checkbox"/>	Salix scouleriana	<input type="checkbox"/>	Stellaria longipes	<input type="checkbox"/>	Wyethia angustifolia
<input type="checkbox"/>	Pteridium aquilinum	<input type="checkbox"/>	Salix sessilifolia	<input type="checkbox"/>	Stellaria media	<input type="checkbox"/>	Zigadenus venenosus
<input type="checkbox"/>	Pyrrocoma racemosa	<input type="checkbox"/>	Salix sitchensis	<input type="checkbox"/>	Symphoricarpos albus	<input type="checkbox"/>	
<input type="checkbox"/>	Pyrus communis	<input type="checkbox"/>	Salix sp.	<input type="checkbox"/>	Taraxacum officinale	<input type="checkbox"/>	RARE SPECIES
<input type="checkbox"/>	Quercus garryana	<input type="checkbox"/>	Sanicula sp.	<input type="checkbox"/>	Thalictrum polycarpum	<input type="checkbox"/>	Aster curtus
<input type="checkbox"/>	Quercus kelloggii	<input type="checkbox"/>	Sanquisorba annua	<input type="checkbox"/>	Torilis arvensis	<input type="checkbox"/>	Cicendia quadrangularis
<input type="checkbox"/>	Ranunculus alismaefolius	<input type="checkbox"/>	Sanquisorba minor	<input type="checkbox"/>	Toxicodendron diversiloba	<input type="checkbox"/>	Erigeron decumbens var. decumbens
<input type="checkbox"/>	Ranunculus aquatilis	<input type="checkbox"/>	Saxifraga integrifolia	<input type="checkbox"/>	Trichostema lanceolatum	<input type="checkbox"/>	Horkelia congesta ssp. congesta
<input type="checkbox"/>	Ranunculus arvensis	<input type="checkbox"/>	Saxifraga oregana	<input type="checkbox"/>	Trifolium dubium	<input type="checkbox"/>	Lomatium bradshawii
<input type="checkbox"/>	Ranunculus flammula	<input type="checkbox"/>	Scirpus acutus	<input type="checkbox"/>	Trifolium hybridum	<input type="checkbox"/>	
<input type="checkbox"/>	Ranunculus occidentalis	<input type="checkbox"/>	Scirpus microcarpus	<input type="checkbox"/>	Trifolium pratense	<input type="checkbox"/>	
<input type="checkbox"/>	Ranunculus orthorhynchus	<input type="checkbox"/>	Scirpus tabernaemontani (validus)	<input type="checkbox"/>	Trifolium repens	<input type="checkbox"/>	
<input type="checkbox"/>	Ranunculus repens	<input type="checkbox"/>	Senecio jacobaea	<input type="checkbox"/>	Trifolium subterraneum	<input type="checkbox"/>	
<input type="checkbox"/>	Ranunculus sceleratus	<input type="checkbox"/>	Senecio sylvaticus	<input type="checkbox"/>	Trifolium variegatum	<input type="checkbox"/>	
<input type="checkbox"/>	Ranunculus uncinatus	<input type="checkbox"/>	Senecio vulgaris	<input type="checkbox"/>	Triphysaria versicolor ssp. versicolor	<input type="checkbox"/>	
<input type="checkbox"/>	Rhamnus purshiana	<input type="checkbox"/>	Sherardia arvensis	<input type="checkbox"/>	Triteleia hyacinthina	<input type="checkbox"/>	
<input type="checkbox"/>	Rorippa curvisiliqua	<input type="checkbox"/>	Sidalcea campestris	<input type="checkbox"/>	Triticum aestivum	<input type="checkbox"/>	
<input type="checkbox"/>	Rorippa nasturtium-aquaticum	<input type="checkbox"/>	Sidalcea virgata	<input type="checkbox"/>	Typha latifolia	<input type="checkbox"/>	

5.2.4. Form 2 for Habitat Polygon SS2

Site Name: Site A

Date Collected: 7/10/2000

Consultant: Consultant A

Habitat Polygon: SS2

Checklist Page 1

Indicate the abundance of each species using the appropriate category: D = Dominant (>25%), C = Common (15-24%), U = Uncommon (3-14%), T = Trace (1 plant to 3%). Species considered rare by the WEW Plan are listed at the end of the form.

<input type="checkbox"/>	Acer macrophyllum	<input type="checkbox"/>	Bidens frondosa	<input type="checkbox"/>	Carex tumulicola	<input type="checkbox"/>	Cyperus squarrosus
<input type="checkbox"/>	Achillea millefolium	<input type="checkbox"/>	Brassica rapa	<input type="checkbox"/>	Carex unilateralis	<input type="checkbox"/>	Cytisus scoparius
<input type="checkbox"/>	Agrostis exarata	<input type="checkbox"/>	Briza minor	<input type="checkbox"/>	Carex vesicaria	<input type="checkbox"/>	Dactylis glomerata
<input type="checkbox"/>	Agrostis stolonifera/capillaris	<input type="checkbox"/>	Brodiaea coronaria	<input type="checkbox"/>	Carex feta	<input checked="" type="checkbox"/>	Danthonia californica
<input type="checkbox"/>	Aira caryophyllea	<input type="checkbox"/>	Brodiaea sp.	<input type="checkbox"/>	Castilleja tenuis	<input type="checkbox"/>	Daucus carota
<input type="checkbox"/>	Alisma lanceolatum	<input type="checkbox"/>	Bromus carinatus	<input type="checkbox"/>	Ceanothus sp.	<input type="checkbox"/>	Delphinium menzeisii
<input type="checkbox"/>	Alisma triviale	<input type="checkbox"/>	Bromus hordeaceus	<input type="checkbox"/>	Centarium erythraeae	<input checked="" type="checkbox"/>	Deschampsia cespitosa
<input type="checkbox"/>	Allium amplexans	<input type="checkbox"/>	Bromus inermis	<input type="checkbox"/>	Centaurea pratensis	<input type="checkbox"/>	Deschampsia danthonioides
<input type="checkbox"/>	Alnus rubra	<input type="checkbox"/>	Bromus rigidus	<input type="checkbox"/>	Centaurium muhlenbergii	<input type="checkbox"/>	Deschampsia elongata
<input type="checkbox"/>	Alopecurus geniculatus	<input type="checkbox"/>	Calandrinia ciliata	<input type="checkbox"/>	Centunculus minimus	<input type="checkbox"/>	Dianthus armeria
<input type="checkbox"/>	Alopecurus pratensis	<input type="checkbox"/>	Callitriche heterophylla	<input type="checkbox"/>	Cerastium glomeratum	<input type="checkbox"/>	Dichelostemma congestum
<input type="checkbox"/>	Amelanchier alnifolia	<input type="checkbox"/>	Callitriche stagnalis	<input type="checkbox"/>	Cichorium intybus	<input type="checkbox"/>	Dipsacus fullonum
<input type="checkbox"/>	Anagallis arvensis	<input type="checkbox"/>	Callitriche verna	<input type="checkbox"/>	Cirsium arvense	<input type="checkbox"/>	Downingia elegans
<input type="checkbox"/>	Anaphalis margaritacea	<input type="checkbox"/>	Calystegia sepium	<input type="checkbox"/>	Cirsium vulgare	<input type="checkbox"/>	Downingia sp.
<input type="checkbox"/>	Anthemis cotula	<input type="checkbox"/>	Camassia leichtlinii var. suksdorfii	<input type="checkbox"/>	Collomia grandiflora	<input type="checkbox"/>	Downingia yina
<input checked="" type="checkbox"/>	Anthoxanthum odoratum	<input type="checkbox"/>	Camassia quamash var. maxima	<input type="checkbox"/>	Commandra umbellata	<input type="checkbox"/>	Echinochloa crus-galli
<input type="checkbox"/>	Anthriscus caucalis	<input type="checkbox"/>	Cardamine oligosperma	<input type="checkbox"/>	Conium maculatum	<input type="checkbox"/>	Eleocharis acicularis
<input type="checkbox"/>	Aristida oligantha	<input type="checkbox"/>	Cardamine penduliflora	<input type="checkbox"/>	Convolvulus arvensis	<input type="checkbox"/>	Eleocharis obtusa
<input type="checkbox"/>	Arrhenatherum elatius	<input type="checkbox"/>	Carex densa	<input type="checkbox"/>	Crataegus monogyna	<input type="checkbox"/>	Eleocharis palustris
<input type="checkbox"/>	Aster hallii	<input type="checkbox"/>	Carex feta	<input type="checkbox"/>	Crataegus monogyna x suksdorfii	<input type="checkbox"/>	Eleocharis quadrangulata
<input type="checkbox"/>	Avena fatua	<input type="checkbox"/>	Carex obnupta	<input checked="" type="checkbox"/>	Crataegus suksdorfii	<input type="checkbox"/>	Elymus elymoides
<input type="checkbox"/>	Barbarea orthoceras	<input type="checkbox"/>	Carex ovalis	<input type="checkbox"/>	Crepis capillaries	<input type="checkbox"/>	Elymus glaucus
<input type="checkbox"/>	Beckmannia syzigachne	<input type="checkbox"/>	Carex pachystachya	<input type="checkbox"/>	Cuscuta sp.	<input type="checkbox"/>	Epilobium brachycarpum
<input type="checkbox"/>	Berberis aquifolium	<input type="checkbox"/>	Carex pellita	<input type="checkbox"/>	Cynosurus cristatus	<input type="checkbox"/>	Epilobium ciliatum
<input type="checkbox"/>	Betula cf pendula/pubescens	<input type="checkbox"/>	Carex species	<input type="checkbox"/>	Cynosurus echinatus	<input type="checkbox"/>	Epilobium densiflorum
<input type="checkbox"/>	Bidens cernua	<input type="checkbox"/>	Carex stipata	<input type="checkbox"/>	Cyperus eragrostis	<input type="checkbox"/>	Epilobium pygmaeum

Site Name: Site A

Date Collected: 7/10/2000

Consultant: Consultant A

Habitat Polygon: SS2

Checklist Page 2

<input type="checkbox"/>	Equisetum arvense	<input type="checkbox"/>	Iris pseudacorus	<input type="checkbox"/>	Lolium perenne	<input type="checkbox"/>	Montia fontana
<input type="checkbox"/>	Equisetum sp.	<input type="checkbox"/>	Isoetes nutalli	<input type="checkbox"/>	Lomatium nudicaule	<input type="checkbox"/>	Montia linearis
<input type="checkbox"/>	Erechtites minima	<input type="checkbox"/>	Isoetes sp.	<input type="checkbox"/>	Lomatium utriculatum	<input type="checkbox"/>	Myosotis discolor
<input type="checkbox"/>	Eriophyllum lanatum	<input type="checkbox"/>	Juncus acuminatus	<input type="checkbox"/>	Lonicera ciliosa	<input type="checkbox"/>	Myosotis laxa
<input type="checkbox"/>	Eryngium petiolatum	<input type="checkbox"/>	Juncus articulatus	<input type="checkbox"/>	Lonicera hispidula	<input type="checkbox"/>	Myosotis verna (Jepson)
<input checked="" type="checkbox"/>	Festuca arundinacea	<input type="checkbox"/>	Juncus bolanderi	<input type="checkbox"/>	Lotus corniculatus	<input type="checkbox"/>	Myriophyllum aquaticum
<input type="checkbox"/>	Festuca rubra	<input type="checkbox"/>	Juncus bufonius	<input type="checkbox"/>	Lotus formosissimus	<input type="checkbox"/>	Myosurus minimus
<input type="checkbox"/>	Downingia yina	<input type="checkbox"/>	Juncus effuses	<input type="checkbox"/>	Lotus micranthus	<input type="checkbox"/>	Navarretia intertexta
<input type="checkbox"/>	Fragaria virginiana	<input type="checkbox"/>	Juncus ensifolius	<input type="checkbox"/>	Lotus unifoliolatus	<input type="checkbox"/>	Navarretia squarrosa
<input checked="" type="checkbox"/>	Fraxinus latifolia	<input type="checkbox"/>	Juncus marginatus	<input type="checkbox"/>	Ludwigia palustris	<input type="checkbox"/>	Nemophila menziesii
<input type="checkbox"/>	Galium aparine	<input type="checkbox"/>	Juncus nevadensis	<input type="checkbox"/>	Lupinus bicolor	<input type="checkbox"/>	Nemophila parviflora
<input type="checkbox"/>	Galium parisiense	<input type="checkbox"/>	Juncus oxymeris	<input type="checkbox"/>	Lupinus polyphyllus	<input type="checkbox"/>	Oenanthe sarmentosa
<input type="checkbox"/>	Galium trifidum	<input type="checkbox"/>	Juncus patens	<input type="checkbox"/>	Lupinus rivularis	<input type="checkbox"/>	Orthocarpus bracteosus
<input type="checkbox"/>	Galium triflorum	<input type="checkbox"/>	Juncus tenuis	<input type="checkbox"/>	Luzula comosa	<input type="checkbox"/>	Panicum acuminatum ssp. fasc.
<input type="checkbox"/>	Gentiana sceptrum	<input type="checkbox"/>	Kickxia elatine	<input type="checkbox"/>	Lycopus americanus	<input type="checkbox"/>	Panicum capillare ssp. capillare
<input type="checkbox"/>	Geranium dissectum	<input type="checkbox"/>	Koeleria macrantha	<input type="checkbox"/>	Lythrum hyssopifolia	<input type="checkbox"/>	Parentucellia viscosa
<input type="checkbox"/>	Geranium spp.	<input type="checkbox"/>	Lactuca saligna	<input type="checkbox"/>	Lythrum portula	<input type="checkbox"/>	Paspalum distichum
<input type="checkbox"/>	Geum macrophyllum	<input type="checkbox"/>	Lactuca serriola	<input type="checkbox"/>	Lythrum salicaria	<input type="checkbox"/>	Perideridia gairdneri
<input type="checkbox"/>	Glyceria occidentalis	<input type="checkbox"/>	Lamium purpureum	<input type="checkbox"/>	Madia elegans	<input type="checkbox"/>	Perideridia oregana
<input type="checkbox"/>	Gnaphalium palustre	<input type="checkbox"/>	Lasthenia glaberrima	<input checked="" type="checkbox"/>	Madia glomerata	<input type="checkbox"/>	Phalaris aquatica
<input type="checkbox"/>	Gnaphalium purpureum	<input type="checkbox"/>	Lathyrus aphaca	<input type="checkbox"/>	Madia sativa	<input checked="" type="checkbox"/>	Phalaris arundinacea
<input type="checkbox"/>	Gnaphalium uliginosum	<input type="checkbox"/>	Lathyrus latifolius	<input type="checkbox"/>	Malus fusca	<input type="checkbox"/>	Phleum pratense
<input type="checkbox"/>	Gratiola ebracteata	<input type="checkbox"/>	Lathyrus sphaericus	<input type="checkbox"/>	Malus xdomestica	<input type="checkbox"/>	Phlox gracilis
<input type="checkbox"/>	Grindelia integrifolia	<input type="checkbox"/>	Leersia oryzoides	<input type="checkbox"/>	Matricaria discoidea	<input type="checkbox"/>	Physocarpus capitatus
<input type="checkbox"/>	Heracleum lanatum	<input type="checkbox"/>	Leontodon taraxacoides	<input type="checkbox"/>	Mazus japonicus	<input type="checkbox"/>	Plagiobothrys figuratus
<input type="checkbox"/>	Heterocodon rariflorum	<input type="checkbox"/>	Lepidium campestre	<input type="checkbox"/>	Melilotus alba	<input type="checkbox"/>	Plagiobothrys scouleri
<input checked="" type="checkbox"/>	Holcus lanatus	<input type="checkbox"/>	Lepidium sp.	<input type="checkbox"/>	Mentha piperita	<input type="checkbox"/>	Plantago lanceolata
<input type="checkbox"/>	Hordeum brachyantherum	<input type="checkbox"/>	Leucanthemum vulgare	<input type="checkbox"/>	Mentha pulegium	<input type="checkbox"/>	Plantago major
<input type="checkbox"/>	Hordeum geniculatum	<input type="checkbox"/>	Ligustrum sp.	<input type="checkbox"/>	Mentha spicata	<input type="checkbox"/>	Plectritis congesta
<input type="checkbox"/>	Hypericum anagaloides	<input type="checkbox"/>	Lindernia dubia	<input type="checkbox"/>	Microseris laciniata	<input type="checkbox"/>	Poa annua
<input type="checkbox"/>	Hypericum perforatum	<input type="checkbox"/>	Linum bienne	<input type="checkbox"/>	Mimulus guttatus var. dep.	<input type="checkbox"/>	Poa compressa
<input type="checkbox"/>	Hypochaeris radicata	<input type="checkbox"/>	Lolium multiflorum	<input type="checkbox"/>	Moenchia erecta	<input type="checkbox"/>	Poa pratensis

Site Name: Site A

Date Collected: 7/10/2000

Consultant: Consultant A

Habitat Polygon: SS2

Checklist Page 3

<input type="checkbox"/>	Polygonum aviculare	<input type="checkbox"/>	Rosa eglanteria	<input type="checkbox"/>	Sisyrinchium californicum (Jep)	<input type="checkbox"/>	Verbascum blattaria
<input type="checkbox"/>	Polygonum douglasii	<input type="checkbox"/>	Rosa multiflora	<input type="checkbox"/>	Sisyrinchium hitchcockii	<input type="checkbox"/>	Verbascum thapsus
<input type="checkbox"/>	Polygonum hydropiperoides	<input type="checkbox"/>	Rosa nutkana	<input type="checkbox"/>	Sisyrinchium idahoense	<input type="checkbox"/>	Veronica americana
<input type="checkbox"/>	Polygonum persicaria	<input type="checkbox"/>	Rosa pisocarpa	<input type="checkbox"/>	Solanum dulcamara	<input type="checkbox"/>	Veronica arvensis
<input type="checkbox"/>	Polypogon monspeliensis	U	Rubus armeniacus	<input type="checkbox"/>	Solanum nigrum	<input type="checkbox"/>	Veronica peregrina
<input type="checkbox"/>	Polystichum munitum	<input type="checkbox"/>	Rubus laciniatus	<input type="checkbox"/>	Solidago canadensis	<input type="checkbox"/>	Veronica scutellata
<input type="checkbox"/>	Populus trichocarpa	<input type="checkbox"/>	Rubus ursinus	<input type="checkbox"/>	Sonchus asper	<input type="checkbox"/>	Viburnum ellipticum
<input type="checkbox"/>	Potentilla gracilis	<input type="checkbox"/>	Rumex acetosella	<input type="checkbox"/>	Sorghum halapense	<input type="checkbox"/>	Vicia cracca
<input type="checkbox"/>	Prunella vulgaris var. lanceolata	<input type="checkbox"/>	Rumex conglomeratus	<input type="checkbox"/>	Sparganium emersum	<input type="checkbox"/>	Vicia hirsuta
<input type="checkbox"/>	Prunella vulgaris var. vulgaris	<input type="checkbox"/>	Rumex crispus	<input type="checkbox"/>	Spergularia arvensis	<input type="checkbox"/>	Vicia sativa
<input type="checkbox"/>	Prunus avium	<input type="checkbox"/>	Rumex salicifolius	<input type="checkbox"/>	Spergularia rubra	<input type="checkbox"/>	Vicia tetrasperma
<input type="checkbox"/>	Prunus sp.	<input type="checkbox"/>	Salix geeyeriana	D	Spiraea douglasii	<input type="checkbox"/>	Vulpia bromoides
<input type="checkbox"/>	Pseudotsuga menziesii	<input type="checkbox"/>	Salix hookeriana	<input type="checkbox"/>	Spiranthes romanzoffiana	<input type="checkbox"/>	Vulpia myuros
<input type="checkbox"/>	Psilocarphus elatior	<input type="checkbox"/>	Salix lucida	<input type="checkbox"/>	Stellaria calycantha	<input type="checkbox"/>	Vulpia sp. (annual)
<input type="checkbox"/>	Psilocarphus spp.	<input type="checkbox"/>	Salix scouleriana	<input type="checkbox"/>	Stellaria longipes	<input type="checkbox"/>	Wyethia angustifolia
<input type="checkbox"/>	Pteridium aquilinum	<input type="checkbox"/>	Salix sessilifolia	<input type="checkbox"/>	Stellaria media	<input type="checkbox"/>	Zigadenus venenosus
<input type="checkbox"/>	Pyrrocoma racemosa	<input type="checkbox"/>	Salix sitchensis	<input type="checkbox"/>	Symphoricarpos albus	<input type="checkbox"/>	
T	Pyrus communis	<input type="checkbox"/>	Salix sp.	<input type="checkbox"/>	Taraxacum officinale	<input type="checkbox"/>	RARE SPECIES
<input type="checkbox"/>	Quercus garryana	<input type="checkbox"/>	Sanicula sp.	<input type="checkbox"/>	Thalictrum polycarpum	<input type="checkbox"/>	Aster curtus
<input type="checkbox"/>	Quercus kelloggii	<input type="checkbox"/>	Sanquisorba annua	<input type="checkbox"/>	Torilis arvensis	<input type="checkbox"/>	Cicendia quadrangularis
<input type="checkbox"/>	Ranunculus alismaefolius	<input type="checkbox"/>	Sanquisorba minor	<input type="checkbox"/>	Toxicodendron diversiloba	<input type="checkbox"/>	Erigeron decumbens var. decumbens
<input type="checkbox"/>	Ranunculus aquatilis	<input type="checkbox"/>	Saxifraga integrifolia	<input type="checkbox"/>	Trichostema lanceolatum	<input type="checkbox"/>	Horkelia congesta ssp. congesta
<input type="checkbox"/>	Ranunculus arvensis	<input type="checkbox"/>	Saxifraga oregana	<input type="checkbox"/>	Trifolium dubium	<input type="checkbox"/>	Lomatium bradshawii
<input type="checkbox"/>	Ranunculus flammula	<input type="checkbox"/>	Scirpus acutus	<input type="checkbox"/>	Trifolium hybridum	<input type="checkbox"/>	
<input type="checkbox"/>	Ranunculus occidentalis	<input type="checkbox"/>	Scirpus microcarpus	<input type="checkbox"/>	Trifolium pratense	<input type="checkbox"/>	
<input type="checkbox"/>	Ranunculus orthorhynchus	<input type="checkbox"/>	Scirpus tabernaemontani (validus)	<input type="checkbox"/>	Trifolium repens	<input type="checkbox"/>	
<input type="checkbox"/>	Ranunculus repens	<input type="checkbox"/>	Senecio jacobaea	<input type="checkbox"/>	Trifolium subterraneum	<input type="checkbox"/>	
<input type="checkbox"/>	Ranunculus sceleratus	<input type="checkbox"/>	Senecio sylvaticus	<input type="checkbox"/>	Trifolium variegatum	<input type="checkbox"/>	
<input type="checkbox"/>	Ranunculus uncinatus	<input type="checkbox"/>	Senecio vulgaris	<input type="checkbox"/>	Triphysaria versicolor ssp. versicolor	<input type="checkbox"/>	
<input type="checkbox"/>	Rhamnus purshiana	<input type="checkbox"/>	Sherardia arvensis	<input type="checkbox"/>	Triteleia hyacinthina	<input type="checkbox"/>	
<input type="checkbox"/>	Rorippa curvisiliqua	<input type="checkbox"/>	Sidalcea campestris	<input type="checkbox"/>	Triticum aestivum	<input type="checkbox"/>	
<input type="checkbox"/>	Rorippa nasturtium-aquaticum	<input type="checkbox"/>	Sidalcea virgata	<input type="checkbox"/>	Typha latifolia	<input type="checkbox"/>	

5.2.5. Form 2 for Habitat Polygon FO1

Site Name: Site A

Date Collected: 7/10/2000

Consultant: Consultant A

Habitat Polygon: FO1

Checklist Page 1

Indicate the abundance of each species using the appropriate category: D = Dominant (>25%), C = Common (15-24%), U = Uncommon (3-14%), T = Trace (1 plant to 3%). Species considered rare by the WEW Plan are listed at the end of the form.

	Acer macrophyllum		Bidens frondosa		Carex tumulicola		Cyperus squarrosus
	Achillea millefolium		Brassica rapa		Carex unilateralis		Cytisus scoparius
T	Agrostis exarata		Briza minor		Carex vesicaria		Dactylis glomerata
	Agrostis stolonifera/capillaris		Brodiaea coronaria		Carex feta	U	Danthonia californica
	Aira caryophylla		Brodiaea sp.		Castilleja tenuis		Daucus carota
	Alisma lanceolatum		Bromus carinatus		Ceanothus sp.		Delphinium menzeisii
	Alisma triviale		Bromus hordeaceus		Centarium erythraeae	U	Deschampsia cespitosa
	Allium amplexans		Bromus inermis		Centaurea pratensis		Deschampsia danthonioides
	Alnus rubra		Bromus rigidus		Centaurium muhlenbergii		Deschampsia elongata
	Alopecurus geniculatus		Calandrinia ciliata		Centunculus minimus		Dianthus armeria
	Alopecurus pratensis		Callitriche heterophylla		Cerastium glomeratum		Dichelostemma congestum
T	Amelanchier alnifolia		Callitriche stagnalis		Cichorium intybus		Dipsacus fullonum
	Anagallis arvensis		Callitriche verna		Cirsium arvense		Downingia elegans
	Anaphalis margaritacea		Calystegia sepium		Cirsium vulgare		Downingia sp.
	Anthemis cotula		Camassia leichtlinii var. suksdorfii		Collomia grandiflora		Downingia yina
T	Anthoxanthum odoratum		Camassia quamash var. maxima		Commandra umbellata		Echinochloa crus-galli
	Anthriscus caucalis		Cardamine oligosperma		Conium maculatum		Eleocharis acicularis
	Aristida oligantha		Cardamine penduliflora		Convolvulus arvensis		Eleocharis obtusa
	Arrhenatherum elatius		T Carex densa	D	Crataegus monogyna		Eleocharis palustris
T	Aster hallii		Carex feta	U	Crataegus monogyna x suksdorfii		Eleocharis quadrangulata
	Avena fatua		Carex obnupta	D	Crataegus suksdorfii		Elymus elymoides
	Barbarea orthoceras		Carex ovalis		Crepis capillaries		Elymus glaucus
	Beckmannia syzigachne		Carex ovalis		Cuscuta sp.		Epilobium brachycarpum
	Berberis aquifolium		Carex pachystachya		Cynosurus cristatus		Epilobium ciliatum
	Betula cf pendula/pubescens		Carex pellita		Cynosurus echinatus		Epilobium densiflorum
	Bidens cernua		Carex species		Cyperus eragrostis		Epilobium pygmaeum
			Carex stipata				

Site Name: Site A

Date Collected: 7/10/2000

Consultant: Consultant A

Habitat Polygon: FO1

Checklist Page 2

	Equisetum arvense		Iris pseudacorus		Lolium perenne		Montia fontana
	Equisetum sp.		Isoetes nutalli		Lomatium nudicaule		Montia linearis
	Erechtites minima		Isoetes sp.		Lomatium utriculatum		Myosotis discolor
	Eriophyllum lanatum	T	Juncus acuminatus		Lonicera ciliosa		Myosotis laxa
	Eryngium petiolatum		Juncus articulatus		Lonicera hispidula		Myosotis verna (Jepson)
U	Festuca arundinacea		Juncus bolanderi		Lotus corniculatus		Myriophyllum aquaticum
	Festuca rubra		Juncus bufonius		Lotus formosissimus		Myosurus minimus
	Downingia yina		Juncus effuses		Lotus micranthus		Navarretia intertexta
	Fragaria virginiana		Juncus ensifolius		Lotus unifoliolatus		Navarretia squarrosa
D	Fraxinus latifolia		Juncus marginatus		Ludwigia palustris		Nemophila menziesii
	Galium aparine		Juncus nevadensis		Lupinus bicolor		Nemophila parviflora
	Galium parisiense		Juncus oxymeris		Lupinus polyphyllus		Oenanthe sarmentosa
	Galium trifidum	T	Juncus patens		Lupinus rivularis		Orthocarpus bracteosus
	Galium triflorum	T	Juncus tenuis		Luzula comosa		Panicum acuminatum ssp. fasc.
	Gentiana sceptrum		Kickxia elatine		Lycopus americanus		Panicum capillare ssp. capillare
	Geranium dissectum		Koeleria macrantha		Lythrum hyssopifolia		Parentucellia viscosa
	Geranium spp.		Lactuca saligna		Lythrum portula		Paspalum distichum
	Geum macrophyllum		Lactuca serriola		Lythrum salicaria		Perideridia gairdneri
	Glyceria occidentalis		Lamium purpureum		Madia elegans		Perideridia oregana
	Gnaphalium palustre		Lasthenia glaberrima		Madia glomerata		Phalaris aquatica
	Gnaphalium purpureum		Lathyrus aphaca		Madia sativa		Phalaris arundinacea
	Gnaphalium uliginosum		Lathyrus latifolius		Malus fusca		Phleum pratense
	Gratiola ebracteata		Lathyrus sphaericus		Malus xdomestica		Phlox gracilis
	Grindelia integrifolia		Leersia oryzoides		Matricaria discoidea		Physocarpus capitatus
	Heracleum lanatum		Leontodon taraxacoides		Mazus japonicus		Plagiobothrys figuratus
	Heterocodon rariflorum		Lepidium campestre		Melilotus alba		Plagiobothrys scouleri
	Holcus lanatus		Lepidium sp.		Mentha piperita		Plantago lanceolata
	Hordeum brachyantherum		Leucanthemum vulgare	T	Mentha pulegium		Plantago major
	Hordeum geniculatum		Ligustrum sp.		Mentha spicata		Plectritis congesta
	Hypericum anagalloides		Lindernia dubia		Microseris laciniata		Poa annua
T	Hypericum perforatum		Linum bienne		Mimulus guttatus var. dep.		Poa compressa
T	Hypochaeris radicata		Lolium multiflorum		Moenchia erecta		Poa pratensis

Site Name: Site A

Date Collected: 7/10/2000

Consultant: Consultant A

Habitat Polygon: FO1

Checklist Page 3

	Polygonum aviculare		Rosa eglanteria		Sisyrinchium californicum (Jep)		Verbascum blattaria
	Polygonum douglasii	T	Rosa multiflora		Sisyrinchium hitchcockii		Verbascum thapsus
	Polygonum hydropiperoides	U	Rosa nutkana		Sisyrinchium idahoense		Veronica americana
	Polygonum persicaria		Rosa pisocarpa		Solanum dulcamara		Veronica arvensis
	Polypogon monspeliensis	U	Rubus armeniacus		Solanum nigrum		Veronica peregrina
	Polystichum munitum		Rubus laciniatus		Solidago canadensis		Veronica scutellata
T	Populus trichocarpa		Rubus ursinus		Sonchus asper		Viburnum ellipticum
T	Potentilla gracilis		Rumex acetosella		Sorghum halapense		Vicia cracca
	Prunella vulgaris var. lanceolata		Rumex conglomeratus		Sparganium emersum		Vicia hirsuta
	Prunella vulgaris var. vulgaris	T	Rumex crispus		Spergula arvensis		Vicia sativa
	Prunus avium		Rumex salicifolius		Spergularia rubra		Vicia tetrasperma
	Prunus sp.		Salix geyeriana	T	Spiraea douglasii		Vulpia bromoides
	Pseudotsuga menziesii		Salix hookeriana		Spiranthes romanzoffiana		Vulpia myuros
	Psilocarphus elatior		Salix lucida		Stellaria calycantha		Vulpia sp. (annual)
	Psilocarphus spp.		Salix scouleriana		Stellaria longipes		Wyethia angustifolia
	Pteridium aquilinum		Salix sessilifolia		Stellaria media		Zigadenus venenosus
	Pyrrocoma racemosa		Salix sitchensis		Symphoricarpos albus		
U	Pyrus communis		Salix sp.		Taraxacum officinale		RARE SPECIES
	Quercus garryana		Sanicula sp.		Thalictrum polycarpum		Aster curtus
	Quercus kelloggii		Sanquisorba annua		Torilis arvensis		Cicendia quadrangularis
	Ranunculus alismaefolius		Sanquisorba minor		Toxicodendron diversiloba		Erigeron decumbens var. decumbens
	Ranunculus aquatilis		Saxifraga integrifolia		Trichostema lanceolatum		Horkelia congesta ssp. congesta
	Ranunculus arvensis		Saxifraga oregana		Trifolium dubium		Lomatium bradshawii
	Ranunculus flammula		Scirpus acutus		Trifolium hybridum		
	Ranunculus occidentalis		Scirpus microcarpus		Trifolium pratense		
	Ranunculus orthorhynchus		Scirpus tabernaemontani (validus)		Trifolium repens		
	Ranunculus repens		Senecio jacobaea		Trifolium subterraneum		
	Ranunculus sceleratus		Senecio sylvaticus		Trifolium variegatum		
	Ranunculus uncinatus		Senecio vulgaris		Triphysaria versicolor ssp. versicolor		
	Rhamnus purshiana		Sherardia arvensis		Triteleia hyacinthina		
	Rorippa curvisiliqua		Sidalcea campestris		Triticum aestivum		
	Rorippa nasturtium-aquaticum		Sidalcea virgata		Typha latifolia		

5.3.2. Form 3 for Habitat Polygon Plot WP1b

Site Name: Example Site A

Date Data Collected: July 10, 2000

Consultant: Consultant A

Habitat Polygon/Plot: WP1b

	Species	Indicator Symbol ¹	Strata ²	Origin ³	% Cover ⁴
1	<i>Deschampsia cespitosa</i>	FACW	H	N	20
2	<i>Danthonia californica</i>	FACU	H	N	15
3	<i>Holcus lanatus</i>	FAC	H	I	11
4	<i>Crataegus douglassii</i>	FAC	S	N	11
Total percent cover:					87 %
Relative native percent cover ⁵ :					64 %
Absolute percent cover of all native shrubs (if applicable):					11
Absolute percent cover of all native trees (if applicable):					n/a
Is hummocky topography present? (Yes or No)					yes

¹ – Record each species’ indicator symbol (i.e., OBL, FACW, FAC, FACU, UPL, NOL) as listed in the “National List of Plant Species that Occur in Wetlands” published by the U.S. Fish and Wildlife Service available at <http://www.fws.gov/nwi/bha/list88.html> (Region 9, Northwest)

² – Record the strata where each species is located: herbs (H), shrub (S), or tree (T)

³ – Indicate whether the species is native (N) or introduced (I)

⁴ – Estimate the percent cover of each species present within the plot (10-100%)

⁵ – Calculate the relative native percent cover by dividing the absolute native percent cover by the total percent cover.

5.3.4. Form 3 for Habitat Polygon Plot SS1a

Site Name: Example Site A

Date Data Collected: July 10, 2000

Consultant: Consultant A

Habitat Polygon/Plot: SS1a

For each plot, record all plant species with at least 10% cover using ocular estimates. Depending on the habitat type, use the following plot radii: 5' for wet prairie, emergent, vernal pool, agriculture field or old pasture, 30' for shrub-scrub or forest (measure tree saplings less than 45" high in shrub layer). Record the name of each species, its wetland indicator symbol, strata, whether it is a native or non-native species and its cover value. Also indicate the total cover, relative native cover, the cover of native shrubs and trees, as well as the presence of hummocky topography.

	Species	Indicator Symbol ¹	Strata ²	Origin ³	% Cover ⁴
1	<i>Deschampsia cespitosa</i>	FACW	H	N	21
2	<i>Danthonia californica</i>	FACU	H	N	16
3	<i>Crataegus douglassii</i>	FAC	S	N	10
Total percent cover:					77%
Relative native percent cover ⁵ :					73%
Absolute percent cover of all native shrubs (if applicable):					18
Absolute percent cover of all native trees (if applicable):					--
Is hummocky topography present? (Yes or No)					no

¹ – Record each species' indicator symbol (i.e., OBL, FACW, FAC, FACU, UPL, NOL) as listed in the “National List of Plant Species that Occur in Wetlands” published by the U.S. Fish and Wildlife Service available at <http://www.fws.gov/nwi/bha/list88.html> (Region 9, Northwest)

² – Record the strata where each species is located: herbs (H), shrub (S), or tree (T)

³ – Indicate whether the species is native (N) or introduced (I)

⁴ – Estimate the percent cover of each species present within the plot (10-100%)

⁵ – Calculate the relative native percent cover by dividing the absolute native percent cover by the total percent cover.

5.3.5. Form 3 for Habitat Polygon Plot SS2a

Site Name: Example Site A

Date Data Collected: July 10, 2000

Consultant: Consultant A

Habitat Polygon/Plot: SS2a

For each plot, record all plant species with at least 10% cover using ocular estimates. Depending on the habitat type, use the following plot radii: 5' for wet prairie, emergent, vernal pool, agriculture field or old pasture, 30' for shrub-scrub or forest (measure tree saplings less than 45" high in shrub layer). Record the name of each species, its wetland indicator symbol, strata, whether it is a native or non-native species and its cover value. Also indicate the total cover, relative native cover, the cover of native shrubs and trees, as well as the presence of hummocky topography.

	Species	Indicator Symbol ¹	Strata ²	Origin ³	% Cover ⁴
1	<i>Deschampsia cespitosa</i>	FACW	H	N	10
2	<i>Danthonia californica</i>	FACU	H	N	16
3	<i>Crataegus douglassii</i>	FAC	S	N	16
4	<i>Rubis armenicus</i>	FACU	S	I	10
5	<i>Fraxinus latifolia</i>	FACW	S	N	10
Total percent cover:					86 %
Relative native percent cover ⁵ :					67 %
Absolute percent cover of all native shrubs (if applicable):					39 %
Absolute percent cover of all native trees (if applicable):					n/a
Is hummocky topography present? (Yes or No)					No

¹ – Record each species' indicator symbol (i.e., OBL, FACW, FAC, FACU, UPL, NOL) as listed in the “National List of Plant Species that Occur in Wetlands” published by the U.S. Fish and Wildlife Service available at <http://www.fws.gov/nwi/bha/list88.html> (Region 9, Northwest)

² – Record the strata where each species is located: herbs (H), shrub (S), or tree (T)

³ – Indicate whether the species is native (N) or introduced (I)

⁴ – Estimate the percent cover of each species present within the plot (10-100%)

⁵ – Calculate the relative native percent cover by dividing the absolute native percent cover by the total percent cover.

5.3.6. Form 3 for Habitat Polygon Plot SS2b

Site Name: Example Site A

Date Data Collected: July 10, 2000

Consultant: Consultant A

Habitat Polygon/Plot: SS2b

For each plot, record all plant species with at least 10% cover using ocular estimates. Depending on the habitat type, use the following plot radii: 5' for wet prairie, emergent, vernal pool, agriculture field or old pasture, 30' for shrub-scrub or forest (measure tree saplings less than 45" high in shrub layer). Record the name of each species, its wetland indicator symbol, strata, whether it is a native or non-native species and its cover value. Also indicate the total cover, relative native cover, the cover of native shrubs and trees, as well as the presence of hummocky topography.

	Species	Indicator Symbol ¹	Strata ²	Origin ³	% Cover ⁴
1	<i>Deschampsia cespitosa</i>	FACW	H	N	20
2	<i>Danthonia californica</i>	FACU	H	N	10
3	<i>Crataegus douglassii</i>	FAC	S	N	10
4	<i>Phalaris arundinacea</i>	FACW+	H	I	5
5	<i>Rubis armeniacus</i>	FACU	S	I	5
Total percent cover:					67 %
Relative native percent cover ⁵ :					79%
Absolute percent cover of all native shrubs (if applicable):					26%
Absolute percent cover of all native trees (if applicable):					n/a
Is hummocky topography present? (Yes or No)					no

¹ – Record each species' indicator symbol (i.e., OBL, FACW, FAC, FACU, UPL, NOL) as listed in the “National List of Plant Species that Occur in Wetlands” published by the U.S. Fish and Wildlife Service available at <http://www.fws.gov/nwi/bha/list88.html> (Region 9, Northwest)

² – Record the strata where each species is located: herbs (H), shrub (S), or tree (T)

³ – Indicate whether the species is native (N) or introduced (I)

⁴ – Estimate the percent cover of each species present within the plot (10-100%)

⁵ – Calculate the relative native percent cover by dividing the absolute native percent cover by the total percent cover.

5.3.7. Form 3 for Habitat Polygon Plot SS2c

Site Name: Example Site A

Date Data Collected: July 10, 2000

Consultant: Consultant A

Habitat Polygon/Plot: SS2c

For each plot, record all plant species with at least 10% cover using ocular estimates. Depending on the habitat type, use the following plot radii: 5' for wet prairie, emergent, vernal pool, agriculture field or old pasture, 30' for shrub-scrub or forest (measure tree saplings less than 45" high in shrub layer). Record the name of each species, its wetland indicator symbol, strata, whether it is a native or non-native species and its cover value. Also indicate the total cover, relative native cover, the cover of native shrubs and trees, as well as the presence of hummocky topography.

	Species	Indicator Symbol ¹	Strata ²	Origin ³	% Cover ⁴
1	<i>Deschampsia cespitosa</i>	FACW	H	N	15
2	<i>Danthonia californica</i>	FACU	H	N	10
3	<i>Crataegus douglassii</i>	FAC	S	N	13
10					
Total percent cover:					64 %
Relative native percent cover ⁵ :					78 %
Absolute percent cover of all native shrubs (if applicable):					28 %
Absolute percent cover of all native trees (if applicable):					n/a
Is hummocky topography present? (Yes or No)					yes

¹ – Record each species' indicator symbol (i.e., OBL, FACW, FAC, FACU, UPL, NOL) as listed in the “National List of Plant Species that Occur in Wetlands” published by the U.S. Fish and Wildlife Service available at <http://www.fws.gov/nwi/bha/list88.html> (Region 9, Northwest)

² – Record the strata where each species is located: herbs (H), shrub (S), or tree (T)

³ – Indicate whether the species is native (N) or introduced (I)

⁴ – Estimate the percent cover of each species present within the plot (10-100%)

⁵ – Calculate the relative native percent cover by dividing the absolute native percent cover by the total percent cover.

5.4. Form 4: Rating System

5.4.1. Form 4.1 for Habitat Polygon WP1

Site Name	Example Site A	Date	7/10/2000
Consultant Name	Consultant A	Habitat Polygon Code	WP1

<u>Form</u>	<u>Habitat Attribute</u>	<u>Points</u>		
1	Are rare plants present?			
	Yes	50		
	No	0		
			Rare Plant Score	<u>50</u>
2	Total Native Species Diversity within the Habitat Polygon			
	> or = 15	25		
	10-14	10		
	5-9	5		
	<5	1		
			Native Species Diversity Score	<u>25</u>
3	Average <i>Deschampsia cespitosa</i> Percent Cover Calculated from Plot Forms			
	> or = 25	20		
	10-24	10		
	5-10	5		
	0-5	1		
			Deschampsia cespitosa Cover Score	<u>10</u>
3	Average Percent Native Cover Calculated from Plot Forms			
	> or = 60	25		
	40-59	10		
	25-49	5		
	0-24	1		
			Average Native Cover Score	<u>25</u>
3	Is hummocky topography present in any plot?			
	Yes	10		
	No	0		
			Hummocky Topography Score	<u>10</u>
			Habitat Type Polygon Total Score	<u>120</u>

Your 'Habitat Type Polygon Total Score' will fall into one of the categories listed to the right. Where your polygon falls in the point scale equates to an estimate of its quality rating.

Total Score	Point Scale	Quality Rating
> or = 50		Excellent
40-49		Good
25-39		Fair
0-24		Poor

5.4.2. Form 4.1 for Habitat Polygon WP2

Site Name	Example Site A	Date	7/10/2000
Consultant Name	Consultant A	Habitat Polygon Code	WP2

Form	Habitat Attribute	Points		
1	Are rare plants present?			
	Yes	50		
	No	0		
			Rare Plant Score	<u>0</u>
2	Total Native Species Diversity within the Habitat Polygon			
	> or = 15	25		
	10-14	10		
	5-9	5		
	<5	1		
			Native Species Diversity Score	<u>5</u>
3	Average <i>Deschampsia cespitosa</i> Percent Cover Calculated from Plot Forms			
	> or = 25	20		
	10-24	10		
	5-10	5		
	0-5	1		
			Deschampsia cespitosa Cover Score	<u>10</u>
3	Average Percent Native Cover Calculated from Plot Forms			
	> or = 60	25		
	40-59	10		
	25-49	5		
	0-24	1		
			Average Native Cover Score	<u>25</u>
3	Is hummocky topography present in any plot?			
	Yes	10		
	No	0		
			Hummocky Topography Score	<u>0</u>
			Habitat Type Polygon Total Score	<u>40</u>

	Total Score Point Scale	Quality Rating
Your 'Habitat Type Polygon Total Score' will fall into one of the categories listed to the right. Where your polygon falls in the point scale equates to an estimate of its quality rating.	> or = 50	Excellent
	40-49	Good
	25-39	Fair
	0-24	Poor

5.4.3. Form 4.3 for Habitat Polygon SS1

Site Name	Example Site A		
Consultant Name	Consultant A		
Habitat Polygon Code	SS1	Date	7/10/2000

<u>Form</u>	<u>Habitat Attribute</u>	<u>Points</u>		
1	Are rare plants present?			
	Yes	50		
	No	0		
			Rare Plant Score	<u>0</u>
2	Total Native Species Diversity within the Habitat Polygon			
	> or = 8	25		
	5-7	10		
	2-4	5		
	0-1	1		
			Native Species Diversity Score	<u>5</u>
3	Average Percent Native Cover Calculated from Plot Forms			
	> or = 70	25		
	49-69	10		
	30-49	5		
	0-29	1		
			Average Native Cover Score	<u>10</u>
3	Is hummocky topography present in any plot?			
	Yes	10		
	No	0		
			Hummocky Topography Score	<u>0</u>
3	Average Percent Cover of All Native Shrubs Calculated from Plot Forms			
	> or = 50	20		
	40-49	10		
	30-39	5		
	< 30	*		
			Average Percent Cover of Shrubs Score	<u>5</u>
			Habitat Type Polygon Total Score	<u>20</u>

* The Shrub-Scrub habitat type must have at least a 30% cover of shrubs.

Your 'Habitat Type Polygon Total Score' will fall into one of the categories listed to the right. Where your polygon falls in the point scale equates to an estimate of its quality rating.

Total Score Point Scale	Quality Rating
> or = 50	Excellent
40-49	Good
25-39	Fair
0-24	Poor

5.4.4. Form 4.3 for Habitat Polygon SS2

Site Name	Example Site A		
Consultant Name	Consultant A		
Habitat Polygon Code	SS2	Date	7/10/2000

<u>Form</u>	<u>Habitat Attribute</u>	<u>Points</u>		
1	Are rare plants present?			
	Yes	50		
	No	0		
			Rare Plant Score	0
2	Total Native Species Diversity within the Habitat Polygon			
	> or = 8	25		
	5-7	10		
	2-4	5		
	0-1	1		
			Native Species Diversity Score	10
3	Average Percent Native Cover Calculated from Plot Forms			
	> or = 70	25		
	49-69	10		
	30-49	5		
	0-29	1		
			Average Native Cover Score	5
3	Is hummocky topography present in any plot?			
	Yes	10		
	No	0		
			Hummocky Topography Score	0
3	Average Percent Cover of All Native Shrubs Calculated from Plot Forms			
	> or = 50	20		
	40-49	10		
	30-39	5		
	< 30	*		
			Average Percent Cover of Shrubs Score	5
			Habitat Type Polygon Total Score	20

* The Shrub-Scrub habitat type must have at least a 30% cover of shrubs.

Your 'Habitat Type Polygon Total Score' will fall into one of the categories listed to the right. Where your polygon falls in the point scale equates to an estimate of its quality rating.	Total Score Point Scale	Quality Rating
	> or = 50	Excellent
	40-49	Good
	25-39	Fair
	0-24	Poor

5.4.5. Form 4.4 for Habitat Polygon FO1

Site Name	Example Site A	
Consultant Name	Consultant A	
Habitat Polygon Code	FO1	Date 7/10/2000

<u>Form</u>	<u>Habitat Attribute</u>	<u>Points</u>		
1	Are rare plants present?			
	Yes	50		
	No	0		
			Rare Plant Score	<u>0</u>
2	Total Native Species Diversity within the Habitat Polygon			
	> or = 8	25		
	5-7	10		
	2-4	5		
	0-1	1		
			Native Species Diversity Score	<u>10</u>
3	Average Percent Native Cover Calculated from Plot Forms			
	> or = 70	25		
	49-69	10		
	30-49	5		
	0-29	1		
			Average Native Cover Score	<u>10</u>
3	Is hummocky topography present in any plot?			
	Yes	10		
	No	0		
			Hummocky Topography Score	<u>0</u>
3	Average Percent Cover of All Native Trees Calculated from Plot Forms			
	> or = 50	20		
	40-49	10		
	30-39	5		
	< 30	*		
			Average Percent Cover of Trees Score	<u>5</u>
			Habitat Type Polygon Total Score	<u>25</u>

* The Forest habitat type must have at least a 30% cover of trees.

Your 'Habitat Type Polygon Total Score' will fall into one of the categories listed to the right. Where your polygon falls in the point scale equates to an estimate of its quality rating.	Total Score Point Scale	Quality Rating
	> or = 50	Excellent
	40-49	Good
	25-39	Fair
	0-24	Poor

5.5. Form 5: Site Summary

Site Name: Example Site A

Consultant Name: Consultant A

Summarize the data from all plots within each habitat polygon in the below table. Begin by listing the habitat polygon code labeling each mapped area. For each habitat polygon, list the sample plot letter within the area, the habitat type, and the number of acres encompassed by the habitat polygon. Within each habitat polygon, record whether rare plants were found (Form 1), the total number of native species observed (Form 2), the average relative native percent cover found over all plots (Form 3), and the range of native cover values (Form 3), and the habitat type polygon total score (Form 4).

Habitat Type Code	Polygon Number	Plot Letters Summarized	Acres	Rare Species Present (Yes/No)	Native Species Diversity	Average Relative Percent Native Cover	Range of Relative Percent Native Cover Values	Habitat Type Polygon Total Score	For Office Use Only	
									HQA Rating	WEWP Ratio Reduction
WP	1	a, b	7	Yes	19	68.5%	± 4.5	120	Excellent	No Reduction
WP	2	a	1	No	11	70%	n/a	40	Good	No Reduction
SS	1	a	.75	No	5	39%	n/a	20	Fair	0.25
SS	2	a, b, c	5	Yes	7	37%	± 9.5	20	Fair	0.25
FO	1	a, b	2.75	No	6	33.5%	± 5.5	25	Fair	.05

Final Memo to Agencies from the City of Eugene



Public Works
Parks & Open Space Division

City of Eugene
1820 Roosevelt Blvd.
Eugene, Oregon 97402
(541) 682-4800
(541) 682-4882 FAX
www.ci.eugene.or.us

Date: June 1, 2000

To: Resource Coordinator, Oregon Department of State Lands
Project Manager, U.S. Army Corps of Engineers

From: Dal Ollek, Mitigation Bank Coordinator, City of Eugene Parks & Open Spaces

Subject: Mitigation Replacement Ratios for the Example Site A site,
West Eugene, OR (DSL permit #26000-FP; Corps Action Id#: 2000-500)

Below in Table 1 & 2 I have summarized my determination of wetland mitigation replacement ratios for the Example Site A wetland restoration site. The ratios below are for unavoidable impacts to wetlands base on the acreage provided by the consultant for the project. In Table 1 is for use when mitigation is accomplished through an approved Mitigation Bank (e.g. these ratios apply to a “customer” of a mitigation bank). Table 2 is for use when private mitigation is being proposed.

**Table 1: Example Site A Wetland Restoration Site
Wetland Replacement Ratios Using a Wetland Mitigation Bank**

Vegetation Community	Impact Acres	Habitat Quality Rating	Ratio (when using a Bank)	Mitigation Credits required when using a Bank
WP1	7	Excellent	2:1	14 credits
WP2	1	Good	2:1	2 credits
SS1	.75	Fair	1:1	0.75 credits
SS2	5	Fair	1:1	5 credits
FO1	2.75	Fair	1:1	2.75 credits
Total Mitigation Credits Required				24.5 credits

**Table 2: Example Site A, Wetland Restoration Site
Wetland Replacement Ratios for Private Mitigation**

Vegetation Contact Acres	Impact Acres	Habitat Quality Rating	Type of Private Mitigation		
			Restoration Acres	Creation Acres	Enhancement Acres
WP1	7	Excellent	14	15.75	17.5
WP2	1	Good	2	2.25	2.5
SS1	.75	Fair	0.94	1.13	1.31
SS2	5	Fair	7.5	8.75	10
FO1	2.75	Fair	2.75	3.44	4.13
Total Private Mitigation Required by type of Mitigation Activity			27.19	31.32	35.44

The amount of acres required when proposing private mitigation will vary depending on the type and amount of mitigation activity undertaken (i.e. enhancement, restoration or creation). In Table 2 above, the “total private mitigation required by type of mitigation activity” row assumes that all the replacement activity is one and the same. That is the 27.19 restoration acres means that all the private mitigation was accomplished through restoration. The same applies for the creation and enhancement acres. This table does not attempt to provide replacement acres when a combination of techniques is used, for example if the applicant were to propose the restoration of 15 acres and the enhancement of 12 acres.